



**CONESTOGA-ROVERS
& ASSOCIATES**

651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2
Telephone: (519) 884-0510 Facsimile: (519) 884-0525
www.CRAworld.com

August 10, 2010

Reference No. 056393

Mr. Michael Berkoff
Remedial Project Manager
U.S. Environmental Protection Agency - Region V
Superfund Division, Remedial Response Section #2
77 West Jackson Boulevard (SR - 6J)
Chicago, Illinois 60604 - 3590

Dear Mr. Berkoff:

Re: Remedial Action Monthly Progress Report No. 5 - July 2010
12th Street Landfill Operable Unit No. 4
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Allegan and Kalamazoo County

As required by Task 4, Progress Reports in the Statement of Work for the Remedial Design and Remedial Action at the 12th Street Landfill Operable Unit No. 4, please find attached the Progress Report No. 5 for the period of July 1, 2010 through July 31, 2010.

Should you have any questions or require any additional information, please do not hesitate to contact the undersigned.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Gregory A. Carli, P. E.

AS/cs/22

cc: J. Saric (U.S. EPA) - electronic only
L. Kirby-Miles (U.S. EPA) - electronic only
S. Chummar (U.S. EPA) - electronic only
T. Prendiville (U.S. EPA) - electronic only
S. Borries (U.S. EPA) - electronic only
R. Frey (U.S. EPA) - electronic only
S. Hutsell (CH2MHILL) - electronic only
P. Bucholtz (MDNRE) - three hard copies
K. Zakrzewski (MDNRE) - electronic only

R. Gay (Weyerhaeuser) - electronic only
M. Lebo (Weyerhaeuser) - electronic only
J. Jackowski (Weyerhaeuser) - electronic only
M. Erickson (Arcadis) - electronic only
D. Penniman (Arcadis) - electronic only
G. Griffith (Georgia-Pacific LLC) - electronic only
J. Keiser (CH2M Hill) - electronic only
J. Dembowske (CRA) - electronic only
A. Stadnyk (CRA) - electronic only



Remedial Action Progress Report No. 5
July 1, 2010 to July 31, 2010

Remedial Design and Remedial Action
12th Street Landfill, Operable Unit No. 4
Otsego, Michigan

This progress report is being submitted to the United States Environmental Protection Agency (U.S. EPA) in accordance with Task 4: Progress Reports and the Summary of Major Deliverables/Schedule contained in the Statement of Work for the Remedial Design and Remedial Action pursuant to the terms of the Consent Decree for the Design and Implementation of Certain Response Action at Operable Unit No. 4 and the Plainwell, Inc. Mill Property (Site) of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site (Consent Decree) which became effective February 22, 2005.

1. WORK PERFORMED

- On July 6, 2010, CRA contacted Mr. Jamie Dentler of the Allegan County Health Department and confirmed that a Soil Erosion Sedimentation Control Permit would not be required for the Site activities, in accordance with the terms and conditions of the Consent Decree and Record of Decision.
- On July 8, 2010, CRA submitted to U.S. EPA, a letter detailing the proposed extraction well approach to remove potential perched leachate at the Site. The proposed approach was based on a discussion held during the weekly conference call with U.S. EPA, which provided an interim alternative to addressing perched leachate at the Site.
- On July 10, 2010, Progress Report No. 4 was submitted to U.S. EPA. Included with the progress report were the temporary water treatment system effluent analytical results (seven batches), supplemental Proctor and compaction test results, and analytical results for the "grey pieces" of paper residuals found to be within a peat layer, during excavation activities in the northwest on-property wetlands.
- On July 15, 2010, CRA received verbal comments from U.S. EPA regarding the proposed approach to address potential perched leachate at the Site. On July 20, 2010, CRA submitted a revised letter, addressing U.S. EPA comments.
- Subsequently, on July 21, 2010, U.S. EPA issued a letter, approving the revised approach to address potential perched leachate at the Site.
- On July 26 and 27, 2010, the four extraction wells were installed, in accordance with the approved approach to investigate the potential perched leachate at the Site. A composite sample was collected on July 27, 2010.
- On July 30, 2010, CRA submitted to U.S. EPA, a notice that major Site activities (i.e., excavation, grading, compacting, backfilling, etc.) were temporarily postponed between July 30, 2010 and August 4, 2010, due to the higher than normal influx of water into the active excavation area. This condition was likely the result of the increased water level in the Kalamazoo River due to

Remedial Action Progress Report No. 5
July 1, 2010 to July 31, 2010

Remedial Design and Remedial Action
12th Street Landfill, Operable Unit No. 4
Otsego, Michigan

upstream releases from the Morrow Dam in Kalamazoo intended to address an oil release in Marshall, Michigan. The increase in groundwater infiltration had made it difficult to accurately delineate the extent of paper residuals and collect verification samples from the Asphalt Plant property.

- The following field activities were conducted during the July 2010 reporting period:
 - Site security (24 hours per day, 7 days per week).
 - On-going verification surveying of landfill and surrounding areas.
 - Delivery and stockpiling of general fill for the continual backfilling of the excavated on-property wetland areas.
 - Operation of the temporary water treatment system and dewatering of the excavated on-property wetland areas and the Wyoming Asphalt Plant property, located at the northeast corner and west side of the Site, respectively.
 - Collection of water samples from the effluent storage tanks of the temporary water treatment system for chemical analysis. Based on analytical results, approximately 173,234 gallons of treated water was loaded and transported off-Site by a licensed non-hazardous waste hauler for discharge to the City of Plainwell Water Renewal Plant. Analytical results for water treated and discharged during the reporting period are included as Attachment A.
 - Intermittent tilling on the northeast portion of the landfill, of the previously placed excavated materials to promote drying.
 - Completed the backfilling of the northeast and northwest on-property wetland areas.
 - Rough grading of the north, northeastern and southeastern side slopes of the landfill.
 - Regular compaction testing of the placed materials on the landfill surface. Compaction results for tests conducted during the reporting period are presented in Attachment B.
 - Excavation, placement, grading, and tilling of paper residuals from the Wyoming Asphalt Plant property onto the landfill surface. Approximately 70 percent of the Wyoming Asphalt Plant property area was excavated during the July 2010 reporting period.
 - Additional excavation and cleanup of the Michigan Department of Natural Resources and Environment (MDNRE) property, where Site soils (potentially including some paper residuals) were washed down the landfill side slope into the MDNRE property, as a result of a sudden heavy rain event (approximately 1.75 inches of rain within 30 minutes). The area requiring cleanup will be surveyed to verify the total number of additional verification soil samples (PCBs only) that will be collected. It should be noted that work was temporarily stopped at the Site for three days due to this storm event. Site activities were limited to inspection and maintenance of soil erosion and sedimentation controls.

Remedial Action Progress Report No. 5
July 1, 2010 to July 31, 2010

Remedial Design and Remedial Action
12th Street Landfill, Operable Unit No. 4
Otsego, Michigan

- The collection of 18 verification soil samples from the Wyoming Asphalt Plant property. Analytical results for the verification soil samples collected from the MDNRE property and the available results for the samples collected from the Wyoming Asphalt Plant property are presented in Attachment C.
- Installation of four temporary leachate extraction wells along the landfill surface, in accordance with the approved approach to investigate the potential perched leachate at the Site.
- Submittal of one composited leachate sample collected from the four temporary leachate extraction wells for chemical analysis, prior to conducting full scale pumping at each well. Based on the analytical results for the composite sample, leachate collected from the wells will require treatment through the on-Site temporary water treatment system prior to off-Site discharge due to the PCB concentrations. Analytical results are included as Attachment D.
- Commenced pumping to collect perched leachate from the temporary leachate extraction wells. During the July 2010 reporting period, approximately 350 gallons of perched leachate was collected from the landfill.

2. DATA RECEIVED

- Analytical results have been received for seven batches of treated effluent from the on-Site temporary water treatment system. A total of 173,234 gallons has been treated and shipped off-Site during the July 2010 reporting period to the City of Plainwell Water Renewal Plant. To date a total of 256,364 gallons has been treated and shipped off-Site. Based on a review of the analytical data, all results have met the City of Plainwell's discharge criteria and were non-detect for polychlorinated biphenyls (PCBs). The analytical results are presented in Attachment A.
- Twenty-one compaction tests were conducted on the landfill surface or the placed materials during the July 2010 reporting period. Compaction results meet the 90 percent compaction criteria and are provided as Attachment B.
- Analytical results for the verification soil samples collected from the MDNRE property and the available results for the excavated areas of the Wyoming Asphalt Plant property are presented as Attachment C. A total of nine soil samples were collected from the MDNRE property and 18 soil samples collected from the Wyoming Asphalt Plant property have been received during the July 2010 reporting period. It should be noted that due to the delineation of the Wyoming Asphalt Plant property excavation, two additional verification soil sample locations were added to the Verification Sampling Plan.

Remedial Action Progress Report No. 5
July 1, 2010 to July 31, 2010

Remedial Design and Remedial Action
12th Street Landfill, Operable Unit No. 4
Otsego, Michigan

- Analytical results for the composite leachate sample collected from the four temporary leachate collection wells is presented as Attachment D. Based on the analytical results, the collected leachate will require treatment within the on-Site temporary water treatment system, prior to off-Site discharge to the City of Plainwell Water Renewal Plant.

3. MODIFICATIONS TO WORK PLANS OR OTHER SCHEDULES PROPOSED TO, OR APPROVED BY, THE U.S. EPA

- One modification to the work activities has occurred and includes the installation of four temporary leachate extraction wells on the landfill surface. This modification was approved by U.S. EPA on July 21, 2010, as a means to address perched leachate at the Site/to determine if test pits on the landfill surface will be required. The modification to work activities has not drastically impacted the project schedule, as the leachate collection related tasks have been complete simultaneously with day-to-day Site activities. CRA remains relatively on schedule and has conducted work on two Saturdays during the July 2010 reporting period. Section 4.0 discusses the lost time and the potential to conduct six day work weeks during the month of August to ensure CRA remains on schedule.

4. PROBLEMS ENCOUNTERED AND PLANNED RESOLUTION

- As previously noted above, work at the Site was stopped due to inclement weather conditions for a total of three days during the July 2010 reporting period. Site activities were limited to inspection and maintenance of the soil erosion and sedimentation controls.
- In addition, excavation activities were postponed on July 30, 2010 until August 4, 2010, due to the higher than normal influx of water into the active excavation area, which was likely the result of the increased water level in the Kalamazoo River. The increase in groundwater infiltration had made it difficult to accurately delineate the extent of paper residuals and collect verification samples from the Asphalt Plant property.
- As a result of this lost time, CRA Services will determine the requirement to work six days per week and conduct Site work on Saturdays during the month of August. However, CRA Services remains relatively on schedule and anticipates that only 3 to 4 six day work weeks may be required.

Remedial Action Progress Report No. 5
July 1, 2010 to July 31, 2010

**Remedial Design and Remedial Action
12th Street Landfill, Operable Unit No. 4
Otsego, Michigan**

5. WORK ANTICIPATED DURING THE NEXT REPORTING PERIOD

- In accordance with the RAWP, the following field activities are scheduled to start during the August 2010 reporting period:
 - Continue relocating waste residuals from Wyoming Asphalt Plant property on Site
 - Continue dewatering excavated areas prior to backfilling
 - Continue operation of the temporary water treatment system
 - Backfill the excavated areas of the Wyoming Asphalt Plant property
 - Continue Verification Sampling Program on the excavated areas of the Wyoming Asphalt Plant property and the areas of the MDNRE property that received washout from the landfill due to inclement weather
 - Receive and verify verification soil sampling results from the MDNRE and Wyoming Asphalt Plant property
 - Complete final grading of sub grade landfill surface.
 - Begin placing fill over landfill in preparation for the installation of the landfill gas vents
 - Begin the installation of the anchor trench on the west and southwest portion of the landfill

6. ANTICIPATED DEVELOPMENT WITH WORK DURING THE NEXT PERIOD

- Continue to hold weekly conference calls and/or meetings between U.S. EPA and Project Technical Team
- A meeting has been tentatively scheduled for September 8, 2010, to discuss the start of the liner installation

7. OTHER RELEVANT INFORMATION

- No other Site related information to report

ATTACHMENT A

**ON-SITE TEMPORARY WATER TREATMENT PLANT - EFFLUENT ANALYTICAL RESULTS
FOR JULY 2010 REPORTING PERIOD**



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

Attn : Mr. Paul Wiseman

KAR Project No. : 102613
Date Reported : 07/07/10
Date Activated : 07/06/10
Date Due : 07/07/10
Date Validated : 07/07/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102613. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : 102613

Date Reported: 07/07/10

Project

Description: Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : "WW-056913-070610-JV-006"

Sampled By :

Date Received : 07/06/10

Sample Date : 07/06/10

Sample Type : aqueous

Sample Time : 0930

KAR Sample No. : 102613-01

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/07/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/06/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/07/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/07/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/07/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/07/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/07/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/07/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/07/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
COD	<10	mg/L	EPA 410.4	07/06/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/07/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/06/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/07/10	JAR	
PH	7.9	S.U.	SM 4500-H B	07/06/10	HES	
Phenols, total	<0.02	mg/L	EPA 420.4	07/06/10	DRA	
Phosphorus, total (as P)	0.09	mg/L	SM 4500-P E,B5	07/06/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/06/10	DRA	
Suspended solids, total	<4	mg/L	SM 2540 D	07/06/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/06/10	JAR	
Prep, VOA	Completed		EPA 624	07/06/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/06/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/06/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/06/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/06/10	JAR	
Benzene	<1	ug/L	EPA 624	07/06/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/06/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102613**

Date Reported: **07/07/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-070610-JV-006"**

Sampled By :

Date Received : **07/06/10**

Sample Date : **07/06/10**

Sample Type : **aqueous**

Sample Time : **0930**

KAR Sample No. : **102613-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/06/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/06/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 624	07/06/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/06/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/06/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/06/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/06/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Toluene	<1	ug/L	EPA 624	07/06/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/06/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/06/10	JAR	
Prep, ECD	Completed		EPA 608	07/06/10	JAR	
PCB	See below		EPA 608	07/07/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/07/10	KTL	
12DCA-D4 (surr spk)	97	% spike recovery	EPA 624	07/06/10	JAR	
BFB (surr spk)	98	% spike recovery	EPA 624	07/06/10	JAR	
Toluene-D8 (surr spk)	100	% spike recovery	EPA 624	07/06/10	JAR	
DCB (pest/PCB surr spk)	55	% spike recovery	EPA 608	07/07/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102613**

Date Reported: **07/07/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/06/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102613-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/07/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/06/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/07/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/07/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/07/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/07/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/07/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/07/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/07/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/07/10	DBL	
COD	<10	mg/L	EPA 410.4	07/06/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/07/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/06/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/07/10	JAR	
Phenols, total	<0.02	mg/L	EPA 420.4	07/06/10	DRA	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/06/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/06/10	DRA	
Suspended solids, total	<4	mg/L	SM 2540 D	07/06/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/06/10	JAR	
Prep, VOA	Completed		EPA 624	07/06/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/06/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/06/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/06/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/06/10	JAR	
Benzene	<1	ug/L	EPA 624	07/06/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Bromoform	<1	ug/L	EPA 624	07/06/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/06/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102613**

Date Reported: **07/07/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/06/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102613-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/06/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/06/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/06/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/06/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/06/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/06/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/06/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Toluene	<1	ug/L	EPA 624	07/06/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/06/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/06/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/06/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/06/10	JAR	
Prep, ECD	Completed		EPA 608	07/06/10	JAR	
PCB	See below		EPA 608	07/07/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/07/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/07/10	KTL	
12DCA-D4 (surr spk)	90	% spike recovery	EPA 624	07/06/10	JAR	
BFB (surr spk)	100	% spike recovery	EPA 624	07/06/10	JAR	
Toluene-D8 (surr spk)	102	% spike recovery	EPA 624	07/06/10	JAR	
DCB (pest/PCB surr spk)	70	% spike recovery	EPA 608	07/07/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 5



4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102658
Date Reported : 07/12/10
Date Activated : 07/08/10
Date Due : 07/12/10
Date Validated : 07/12/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102658. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102658**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-070810-PL-007"**

Sampled By : **PL of CRA Services**

Date Received : **07/08/10**

Sample Date : **07/08/10**

Sample Type : **aqueous**

Sample Time : **0800**

KAR Sample No. : **102658-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/08/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/08/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/08/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/08/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/08/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/08/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/08/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/08/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/08/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
COD	<10	mg/L	EPA 200.7	07/08/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/08/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/09/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/08/10	JAR	
PH	8.2	S.U.	SM 4500-H B	07/08/10	SSD	
Phenols, total	<0.02	mg/L	EPA 420.4	07/09/10	DRA	
Phosphorus, total (as P)	0.11	mg/L	SM 4500-P E,B5	07/08/10	ALK	
Sulfide	<2	mg/L	EPA 376.2	07/09/10	DRA	
Suspended solids, total	<4	mg/L	SM 2540 D	07/08/10	DRA	
Prior. Poll. volatiles	See below		EPA 8260	07/08/10	JAR	
Prep, VOA	Completed		EPA 624	07/08/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 8260	07/08/10	JAR	
Acrolein	<20	ug/L	EPA 8260	07/08/10	JAR	
Acrylonitrile	<2	ug/L	EPA 8260	07/08/10	JAR	
Benzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

Page 2

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102658**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-070810-PL-007"**

Sampled By : **PL of CRA Services**

Date Received : **07/08/10**

Sample Date : **07/08/10**

Sample Type : **aqueous**

Sample Time : **0800**

KAR Sample No. : **102658-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 8260	07/08/10	JAR	
Bromomethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Chlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloroform	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 8260	07/08/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Ethylbenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Methylene chloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Toluene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Vinyl chloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Prep, ECD	Completed		EPA 608	07/08/10	KTL	
PCB	See below		EPA 608	07/08/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/08/10	KTL	
12DCA-D4 (surr spk)	99	% spike recovery	EPA 624	07/08/10	JAR	
BFB (surr spk)	100	% spike recovery	EPA 624	07/08/10	JAR	
Toluene-D8 (surr spk)	106	% spike recovery	EPA 624	07/08/10	JAR	
DCB (pest/PCB surr spk)	76	% spike recovery	EPA 608	07/08/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102658**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/08/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102658-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/08/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/08/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/08/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/08/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/08/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/08/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/08/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/08/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/08/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/08/10	DBL	
COD	<10	mg/L	EPA 200.7	07/08/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/08/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/09/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/08/10	JAR	
Phenols, total	<0.02	mg/L	EPA 420.4	07/09/10	DRA	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/08/10	ALK	
Sulfide	<2	mg/L	EPA 376.2	07/09/10	DRA	
Suspended solids, total	<4	mg/L	SM 2540 D	07/08/10	DRA	
Prior. Poll. volatiles	See below		EPA 8260	07/08/10	JAR	
Prep, VOA	Completed		EPA 624	07/08/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 8260	07/08/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 8260	07/08/10	JAR	
Acrolein	<20	ug/L	EPA 8260	07/08/10	JAR	
Acrylonitrile	<2	ug/L	EPA 8260	07/08/10	JAR	
Benzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Bromoform	<1	ug/L	EPA 8260	07/08/10	JAR	
Bromomethane	<1	ug/L	EPA 8260	07/08/10	JAR	

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102658**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/08/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102658-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Chlorobenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloroethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloroform	<1	ug/L	EPA 8260	07/08/10	JAR	
Chloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 8260	07/08/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Ethylbenzene	<1	ug/L	EPA 8260	07/08/10	JAR	
Methylene chloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Toluene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trichloroethene	<1	ug/L	EPA 8260	07/08/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 8260	07/08/10	JAR	
Vinyl chloride	<1	ug/L	EPA 8260	07/08/10	JAR	
Prep, ECD	Completed		EPA 608	07/08/10	KTL	
PCB	See below		EPA 608	07/08/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/08/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/08/10	KTL	
12DCA-D4 (surr spk)	99	% spike recovery	EPA 624	07/08/10	JAR	
BFB (surr spk)	101	% spike recovery	EPA 624	07/08/10	JAR	
Toluene-D8 (surr spk)	106	% spike recovery	EPA 624	07/08/10	JAR	
DCB (pest/PCB surr spk)	81	% spike recovery	EPA 608	07/08/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 5



4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102689
Date Reported : 07/12/10
Date Activated : 07/09/10
Date Due : 07/12/10
Date Validated : 07/12/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102689. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102689**

Date Reported: **07/12/10**

Project

Description: *Analysis of one aqueous sample from 12th St. Landfill (#56913-60).*

Sample ID : **"WW-056913-070910-PL-008"**

Sampled By : **PL of CRA Services**

Date Received : **07/09/10**

Sample Date : **07/09/10**

Sample Type : **aqueous**

Sample Time : **0845**

KAR Sample No. : **102689-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/09/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/09/10	PML	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/09/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/09/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/09/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/09/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/09/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/09/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/09/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
COD	<10	mg/L	EPA 410.4	07/09/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/09/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/09/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/09/10	JAR	
PH	8.3	S.U.	SM 4500-H B	07/09/10	HES	
Phenols, total	<0.02	mg/L	EPA 420.4	07/12/10	JHB	
Phosphorus, total (as P)	0.11	mg/L	SM 4500-P E,B5	07/09/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/09/10	ALK	
Suspended solids, total	8	mg/L	SM 2540 D	07/09/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/09/10	JAR	
Prep, VOA	Completed		EPA 624	07/09/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/09/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/09/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/09/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/09/10	JAR	
Benzene	<1	ug/L	EPA 624	07/09/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/09/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

Page 2

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102689**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-070910-PL-008"**

Sampled By : **PL of CRA Services**

Date Received : **07/09/10**

Sample Date : **07/09/10**

Sample Type : **aqueous**

Sample Time : **0845**

KAR Sample No. : **102689-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/09/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/09/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 624	07/09/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/09/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/09/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/09/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/09/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Toluene	<1	ug/L	EPA 624	07/09/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/09/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/09/10	JAR	
Prep, ECD	Completed		EPA 608	07/09/10	KTL	
PCB	See below		EPA 608	07/09/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/09/10	KTL	
12DCA-D4 (surr spk)	99	% spike recovery	EPA 624	07/09/10	JAR	
BFB (surr spk)	103	% spike recovery	EPA 624	07/09/10	JAR	
Toluene-D8 (surr spk)	103	% spike recovery	EPA 624	07/09/10	JAR	
DCB (pest/PCB surr spk)	54	% spike recovery	EPA 608	07/09/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102689**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/09/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102689-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/09/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/09/10	PML	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/09/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/09/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/09/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/09/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/09/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/09/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/09/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/09/10	DBL	
COD	<10	mg/L	EPA 410.4	07/09/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/09/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/09/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/09/10	JAR	
Phenols, total	<0.02	mg/L	EPA 420.4	07/12/10	JHB	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/09/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/09/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/09/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/09/10	JAR	
Prep, VOA	Completed		EPA 624	07/09/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/09/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/09/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/09/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/09/10	JAR	
Benzene	<1	ug/L	EPA 624	07/09/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Bromoform	<1	ug/L	EPA 624	07/09/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/09/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102689**

Date Reported: **07/12/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/09/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102689-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/09/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/09/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/09/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/09/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/09/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/09/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/09/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Toluene	<1	ug/L	EPA 624	07/09/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/09/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/09/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/09/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/09/10	JAR	
Prep, ECD	Completed		EPA 608	07/09/10	KTL	
PCB	See below		EPA 608	07/09/10	KTL	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/09/10	KTL	
PCB Aroclors, total	NA		EPA 608	07/09/10	KTL	
12DCA-D4 (surr spk)	98	% spike recovery	EPA 624	07/09/10	JAR	
BFB (surr spk)	101	% spike recovery	EPA 624	07/09/10	JAR	
Toluene-D8 (surr spk)	106	% spike recovery	EPA 624	07/09/10	JAR	
DCB (pest/PCB surr spk)	62	% spike recovery	EPA 608	07/09/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

Page 5



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

Attn : Mr. Paul Wiseman

KAR Project No. : 102728
Date Reported : 07/15/10
Date Activated : 07/13/10
Date Due : 07/15/10
Date Validated : 07/15/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102728. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102728**

Date Reported: **07/15/10**

Project

Description: *Analysis of one aqueous sample from 12th St. Landfill (#56913-60).*

Sample ID : **"WW-056913-071310-DN-09"**

Sampled By : **DN of CRA Services**

Date Received : **07/13/10**

Sample Date : **07/13/10**

Sample Type : **aqueous**

Sample Time : **0845**

KAR Sample No. : **102728-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/13/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/13/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/13/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/13/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/13/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/13/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/13/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/13/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/13/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
COD	<10	mg/L	EPA 410.4	07/13/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/13/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/14/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/13/10	GMB	
PH	8.1	S.U.	SM 4500-H B	07/13/10	HES	
Phenols, total	<0.02	mg/L	EPA 420.4	07/13/10	ALK	
Phosphorus, total (as P)	0.08	mg/L	SM 4500-P E,B5	07/13/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/13/10	DRA	
Suspended solids, total	4	mg/L	SM 2540 D	07/13/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/13/10	JAR	
Prep, VOA	Completed		EPA 624	07/13/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/13/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/13/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/13/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/13/10	JAR	
Benzene	<1	ug/L	EPA 624	07/13/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/13/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

Page 2

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102728**

Date Reported: **07/15/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-071310-DN-09"**

Sampled By : **DN of CRA Services**

Date Received : **07/13/10**

Sample Date : **07/13/10**

Sample Type : **aqueous**

Sample Time : **0845**

KAR Sample No. : **102728-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/13/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/13/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 624	07/13/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/13/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/13/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/13/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/13/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Toluene	<1	ug/L	EPA 624	07/13/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/13/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/13/10	JAR	
Prep, ECD	Completed		EPA 608	07/13/10	KTL	
PCB	See below		EPA 608	07/13/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/13/10	GMB	
12DCA-D4 (surr spk)	101	% spike recovery	EPA 624	07/13/10	JAR	
BFB (surr spk)	97	% spike recovery	EPA 624	07/13/10	JAR	
Toluene-D8 (surr spk)	102	% spike recovery	EPA 624	07/13/10	JAR	
DCB (pest/PCB surr spk)	59	% spike recovery	EPA 608	07/13/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102728**

Date Reported: **07/15/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/13/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102728-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/13/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/13/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/13/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/13/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/13/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/13/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/13/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/13/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/13/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/13/10	DBL	
COD	<10	mg/L	EPA 410.4	07/13/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/13/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/14/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/13/10	GMB	
Phenols, total	<0.02	mg/L	EPA 420.4	07/13/10	ALK	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/13/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/13/10	DRA	
Suspended solids, total	<4	mg/L	SM 2540 D	07/13/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/13/10	JAR	
Prep, VOA	Completed		EPA 624	07/13/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/13/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/13/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/13/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/13/10	JAR	
Benzene	<1	ug/L	EPA 624	07/13/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Bromoform	<1	ug/L	EPA 624	07/13/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/13/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102728**

Date Reported: **07/15/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/13/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102728-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/13/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/13/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/13/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/13/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/13/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/13/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/13/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Toluene	<1	ug/L	EPA 624	07/13/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/13/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/13/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/13/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/13/10	JAR	
Prep, ECD	Completed		EPA 608	07/13/10	KTL	
PCB	See below		EPA 608	07/13/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/13/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/13/10	GMB	
12DCA-D4 (surr spk)	97	% spike recovery	EPA 624	07/13/10	JAR	
BFB (surr spk)	101	% spike recovery	EPA 624	07/13/10	JAR	
Toluene-D8 (surr spk)	100	% spike recovery	EPA 624	07/13/10	JAR	
DCB (pest/PCB surr spk)	65	% spike recovery	EPA 608	07/13/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 5



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

Attn : Mr. Paul Wiseman

KAR Project No. : 102812
Date Reported : 07/21/10
Date Activated : 07/16/10
Date Due : 07/21/10
Date Validated : 07/21/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102812. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported: **07/21/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-071610-DN-010"**

Sampled By :

Date Received : **07/16/10**

Sample Date : **07/16/10**

Sample Type : **aqueous**

Sample Time : **0805**

KAR Sample No. : **102812-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/16/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/16/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/16/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/16/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/16/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/16/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/16/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/16/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/19/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
COD	<10	mg/L	EPA 410.4	07/16/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/16/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/16/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/16/10	GMB	
PH	7.9	S.U.	SM 4500-H B	07/16/10	HES	
Phenols, total	<0.02	mg/L	EPA 420.4	07/21/10	ALK	
Phosphorus, total (as P)	0.14	mg/L	SM 4500-P E,B5	07/16/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/21/10	ALK	
Suspended solids, total	5	mg/L	SM 2540 D	07/16/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/16/10	JAR	
Prep, VOA	Completed		EPA 624	07/16/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/16/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/16/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/16/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/16/10	JAR	
Benzene	<1	ug/L	EPA 624	07/16/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/16/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

Page 2

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported: **07/21/10**

Project

Description: Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : **"WW-056913-071610-DN-010"**

Sampled By :

Date Received : **07/16/10**

Sample Date : **07/16/10**

Sample Type : **aqueous**

Sample Time : **0805**

KAR Sample No. : **102812-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/16/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/16/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 624	07/16/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/16/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/16/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/16/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/16/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Toluene	<1	ug/L	EPA 624	07/16/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/16/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/16/10	JAR	
Prep, ECD	Completed		EPA 608	07/16/10	KTL	
PCB	See below		EPA 608	07/16/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/16/10	GMB	
12DCA-D4 (surr spk)	102	% spike recovery	EPA 624	07/16/10	JAR	
BFB (surr spk)	98	% spike recovery	EPA 624	07/16/10	JAR	
Toluene-D8 (surr spk)	103	% spike recovery	EPA 624	07/16/10	JAR	
DCB (pest/PCB surr spk)	44	% spike recovery	EPA 608	07/16/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported: **07/21/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/16/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102812-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/16/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/16/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/16/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/16/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/16/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/16/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/16/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/16/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/16/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/16/10	DBL	
COD	<10	mg/L	EPA 410.4	07/16/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/16/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/16/10	DMC	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/16/10	GMB	
Phenols, total	<0.02	mg/L	EPA 420.4	07/21/10	ALK	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/16/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/21/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/16/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/16/10	JAR	
Prep, VOA	Completed		EPA 624	07/16/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/16/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/16/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/16/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/16/10	JAR	
Benzene	<1	ug/L	EPA 624	07/16/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Bromoform	<1	ug/L	EPA 624	07/16/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/16/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported: **07/21/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/16/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102812-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/16/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/16/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/16/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/16/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/16/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/16/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/16/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Toluene	<1	ug/L	EPA 624	07/16/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/16/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/16/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/16/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/16/10	JAR	
Prep, ECD	Completed		EPA 608	07/16/10	KTL	
PCB	See below		EPA 608	07/16/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/16/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/16/10	GMB	
12DCA-D4 (surr spk)	97	% spike recovery	EPA 624	07/16/10	JAR	
BFB (surr spk)	95	% spike recovery	EPA 624	07/16/10	JAR	
Toluene-D8 (surr spk)	103	% spike recovery	EPA 624	07/16/10	JAR	
DCB (pest/PCB surr spk)	62	% spike recovery	EPA 608	07/16/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 5

KAR Laboratories, Inc.



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102812
Date Reported : 07/21/10
Date Activated : 07/16/10
Date Due : 07/21/10
Date Validated : 07/21/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Please find attached a copy of the QC Report for KAR Project No. 102812. The report might contain a second section entitled "QC Batch Report". This section will contain matrix-specific quality control information for the analytical batch, if applicable. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

For duplicate sample calculations, concentrations are considered zero if less than or equal to the reporting limit. For spiked sample calculations, original sample concentration is also considered zero if less than or equal to the reporting limit. For general QA/QC procedures please consult the KAR Laboratories Quality Assurance Manual.

I hope that you find our services accurate and complete. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

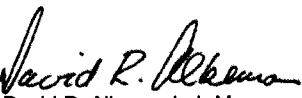
A handwritten signature in black ink that reads 'David R. Alkema'.

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health.

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported : **07/21/10**

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>"WW-056913-071610-DN-010"</u>		Date Sampled : 07/16/10 Time Sampled : 0805							Sample Type : aqueous Sample No. : 102812-01				
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method	Analyzed On By	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L								80-117 19	EPA 624	07/16/10 JAR		
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122 11	EPA 624	07/16/10 JAR		
1,1,2-Trichloroethane	<1 ug/L								92-109 20	EPA 624	07/16/10 JAR		
1,1-Dichloroethane	<1 ug/L								84-127 13	EPA 624	07/16/10 JAR		
1,1-Dichloroethene	<1 ug/L								61-145 14	EPA 624	07/16/10 JAR		
1,2-Dichlorobenzene	<1 ug/L								76-127 12	EPA 624	07/16/10 JAR		
1,2-Dichloroethane	<1 ug/L								72-129 21	EPA 624	07/16/10 JAR		
1,2-Dichloropropane	<1 ug/L								89-110 5	EPA 624	07/16/10 JAR		
1,3-Dichlorobenzene	<1 ug/L								88-119 5	EPA 624	07/16/10 JAR		
1,4-Dichlorobenzene	<1 ug/L								80-123 22	EPA 624	07/16/10 JAR		
12DCA-D4 (surrogate)	102 % spike recovery								63-132 NA	EPA 624	07/16/10 JAR		
2-Chloroethylvinyl ether	<10 ug/L								38-165 16	EPA 624	07/16/10 JAR		
Acrolein	<20 ug/L									EPA 624	07/16/10 JAR		
Acrylonitrile	<2 ug/L								66-93 36	EPA 624	07/16/10 JAR		
Arsenic, total, by ICP	<0.1 mg/L	0.1	105.0 %	103.0 %	1.9 %				93-122 20	EPA 200.7	07/16/10 DBL	100716PE1	
BFB (surrogate)	98 % spike recovery								88-135 NA	EPA 624	07/16/10 JAR		
Benzene	<1 ug/L								76-127 11	EPA 624	07/16/10 JAR		
Bromodichloromethane	<1 ug/L								80-113 23	EPA 624	07/16/10 JAR		
Bromoform	<1 ug/L								76-119 25	EPA 624	07/16/10 JAR		
Bromomethane	<1 ug/L								44-153 21	EPA 624	07/16/10 JAR		
COD	<10 mg/L	40	89.2 %						72-117 46	EPA 410.4	07/16/10 DBL	100716CD1	
Cadmium, total	<0.005 mg/L	0.02	99.9 %	97.4 %	2.5 %				88-109 20	EPA 200.7	07/16/10 DBL	100716PE1	
Carbon tetrachloride	<1 ug/L								87-114 6	EPA 624	07/16/10 JAR		
Chlorobenzene	<1 ug/L								75-130 13	EPA 624	07/16/10 JAR		
Chloroethane	<1 ug/L								61-122 31	EPA 624	07/16/10 JAR		
Chloroform	<1 ug/L								76-119 18	EPA 624	07/16/10 JAR		
Chloromethane	<1 ug/L								56-125 21	EPA 624	07/16/10 JAR		
Chromium, total	<0.01 mg/L	0.1	98.0 %	97.0 %	1.0 %				89-110 20	EPA 200.7	07/16/10 DBL	100716PE1	
Cis-1,3-Dichloropropene	<1 ug/L								88-123 10	EPA 624	07/16/10 JAR		
Copper, total	<0.02 mg/L	0.1	90.0 %	89.0 %	1.1 %				76-105 20	EPA 200.7	07/16/10 DBL	100716PE1	
Cyanide, total	<0.005 mg/L								76-111 20	SM 4500-CN C,E	07/16/10 ALK		
DCB (pest/PCB surrogate)	44 % spike recovery								25-121 NA	EPA 608	07/16/10 GMB		
Dibromochloromethane	<1 ug/L								80-115 29	EPA 624	07/16/10 JAR		
Ethylbenzene	<1 ug/L								70-131 30	EPA 624	07/16/10 JAR		
Lead, total, by ICP	<0.05 mg/L	0.1	95.0 %	93.0 %	2.1 %				75-110 20	EPA 200.7	07/16/10 DBL	100716PE1	
Mercury, total, low level	<0.0002 mg/L	0.002	104.0 %						88-115 20	EPA 245.2	07/16/10 DBL	100716HCV	
Methylene chloride	<1 ug/L								75-118 18	EPA 624	07/16/10 JAR		
Nickel, total	<0.02 mg/L	0.1	96.0 %	94.0 %	2.1 %				87-110 20	EPA 200.7	07/16/10 DBL	100716PE1	
Nitrogen, total kjeldahl	<5 mg/L	5	85.8 %			0.773	0.695	10.6 %	80-129 31	EPA 351.2	07/16/10 DMC	100716TK1	
Oil and grease (HEM)	<5 mg/L	40	95.5 %						81-110 48	EPA 1664	07/16/10 GMB	100716OHB	
PCB	See below									EPA 608	07/16/10 GMB		
PCB Aroclor 1016	<0.2 ug/L								29-135 25	EPA 608	07/16/10 GMB		
PCB Aroclor 1221	<0.2 ug/L									EPA 608	07/16/10 GMB		
PCB Aroclor 1232	<0.2 ug/L									EPA 608	07/16/10 GMB		

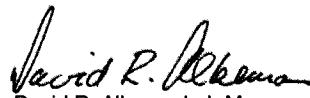
KAR Laboratories, Inc.

(269) 381-9666

Page 1 of 4

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported : **07/21/10**

Project Description : *Analysis of one aqueous sample from 12th St. Landfill (#56913-60).*

Sample ID : <u>"WW-056913-071610-DN-010"</u>		Date Sampled : 07/16/10 Time Sampled : 0805						Sample Type : aqueous Sample No. : 102812-01						
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On	By	QC Batch	Comments
PCB Aroclor 1242	<0.2 ug/L								12-113	5	EPA 608	07/16/10	GMB	
PCB Aroclor 1248	<0.2 ug/L								57-74	6	EPA 608	07/16/10	GMB	
PCB Aroclor 1254	<0.2 ug/L								10	10	EPA 608	07/16/10	GMB	
PCB Aroclor 1260	<0.2 ug/L								29-135	25	EPA 608	07/16/10	GMB	
PCB Aroclors, total	NA								16-128	16	EPA 608	07/16/10	GMB	
PH	7.9 S.U.								5	5	SM 4500-H B	07/16/10	HES	
Phenols, total	<0.02 mg/L	0.05	106.0 %			0.001	0.001	00.0 %	65-130	36	EPA 420.4	07/21/10	ALK	100720PL1
Phosphorus, total (as P)	0.14 mg/L								82-117	18	SM 4500-P E,B5	07/16/10	DMC	
Prep, ECD	Completed										EPA 608	07/16/10	KTL	
Prep, Hg	Completed										EPA 245.2	07/16/10	DBL	
Prep, VOA	Completed										EPA 624	07/16/10	JAR	
Prep, metals	Completed										EPA 30xx,200.x	07/16/10	DBL	
Prior. Poll. volatiles	See below										EPA 624	07/16/10	JAR	
Silver, total	<0.005 mg/L	0.1	98.0 %	96.0 %	2.1 %				80-107	20	EPA 200.7	07/16/10	DBL	100716PE1
Sulfide	<2 mg/L					0	0		76-121	22	EPA 376.2	07/21/10	ALK	100721SU1
Suspended solids, total	5 mg/L					4.8	4.8	00.0 %		25	SM 2540 D	07/16/10	DMC	100716SS1
Tetrachloroethene	<1 ug/L								84-119	38	EPA 624	07/16/10	JAR	
Tin, total	<0.1 mg/L	0.4	75.1 %	95.1 %	23.5 %				73-122	20	EPA 200.7	07/19/10	DBL	100719PE1
Toluene	<1 ug/L								76-125	13	EPA 624	07/16/10	JAR	
Toluene-DB (surr spk)	103 % spike recovery								71-123	NA	EPA 624	07/16/10	JAR	
Trans-1,2-Dichloroethene	<1 ug/L								89-118	32	EPA 624	07/16/10	JAR	
Trans-1,3-Dichloropropene	<1 ug/L								87-122	9	EPA 624	07/16/10	JAR	
Trichloroethene	<1 ug/L								71-120	14	EPA 624	07/16/10	JAR	
Trichlorofluoromethane	<1 ug/L								81-112	19	EPA 624	07/16/10	JAR	
Vinyl chloride	<1 ug/L								49-164	24	EPA 624	07/16/10	JAR	
Zinc, total	<0.02 mg/L	0.5	101.0 %	100.4 %	0.6 %				86-115	20	EPA 200.7	07/16/10	DBL	100716PE1

KAR Laboratories, Inc.

(269) 381-9666

Page 2 of 4

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported : **07/21/10**

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>		Date Sampled :						Sample Type : <u>LMB</u>					
Sampled By :		Time Sampled :						Sample No. : <u>102812-02</u>					
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method	Analyzed On By	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L								80-117	19	EPA 624	07/16/10 JAR	
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122	11	EPA 624	07/16/10 JAR	
1,1,2-Trichloroethane	<1 ug/L								92-109	20	EPA 624	07/16/10 JAR	
1,1-Dichloroethane	<1 ug/L								84-127	13	EPA 624	07/16/10 JAR	
1,1-Dichloroethene	<1 ug/L								61-145	14	EPA 624	07/16/10 JAR	
1,2-Dichlorobenzene	<1 ug/L								76-127	12	EPA 624	07/16/10 JAR	
1,2-Dichloroethane	<1 ug/L								72-129	21	EPA 624	07/16/10 JAR	
1,2-Dichloropropane	<1 ug/L								89-110	5	EPA 624	07/16/10 JAR	
1,3-Dichlorobenzene	<1 ug/L								88-119	5	EPA 624	07/16/10 JAR	
1,4-Dichlorobenzene	<1 ug/L								80-123	22	EPA 624	07/16/10 JAR	
12DCA-D4 (surv spk)	97 % spike recovery								63-132	NA	EPA 624	07/16/10 JAR	
2-Chloroethylvinyl ether	<10 ug/L								38-165	16	EPA 624	07/16/10 JAR	
Acrolein	<20 ug/L									EPA 624	07/16/10 JAR		
Acrylonitrile	<2 ug/L								66-93	36	EPA 624	07/16/10 JAR	
Arsenic, total, by ICP	<0.1 mg/L								93-122	20	EPA 200.7	07/16/10 DBL	
BFB (surv spk)	95 % spike recovery								88-135	NA	EPA 624	07/16/10 JAR	
Benzene	<1 ug/L								76-127	11	EPA 624	07/16/10 JAR	
Bromodichloromethane	<1 ug/L								80-113	23	EPA 624	07/16/10 JAR	
Bromoform	<1 ug/L								76-119	25	EPA 624	07/16/10 JAR	
Bromomethane	<1 ug/L								44-153	21	EPA 624	07/16/10 JAR	
COD	<10 mg/L								72-117	46	EPA 410.4	07/16/10 DBL	
Cadmium, total	<0.005 mg/L								88-109	20	EPA 200.7	07/16/10 DBL	
Carbon tetrachloride	<1 ug/L								87-114	6	EPA 624	07/16/10 JAR	
Chlorobenzene	<1 ug/L								75-130	13	EPA 624	07/16/10 JAR	
Chloroethane	<1 ug/L								61-122	31	EPA 624	07/16/10 JAR	
Chloroform	<1 ug/L								76-119	18	EPA 624	07/16/10 JAR	
Chloromethane	<1 ug/L								56-125	21	EPA 624	07/16/10 JAR	
Chromium, total	<0.01 mg/L								88-110	20	EPA 200.7	07/16/10 DBL	
Cis-1,3-Dichloropropene	<1 ug/L								86-123	10	EPA 624	07/16/10 JAR	
Copper, total	<0.02 mg/L								76-105	20	EPA 200.7	07/16/10 DBL	
Cyanide, total	<0.005 mg/L								76-111	20	SM 4500-CN C,E	07/16/10 ALK	
DCB (pest/PCB surv spk)	62 % spike recovery								25-121	NA	EPA 608	07/16/10 GMB	
Dibromochloromethane	<1 ug/L								80-115	29	EPA 624	07/16/10 JAR	
Ethylbenzene	<1 ug/L								70-131	30	EPA 624	07/16/10 JAR	
Lead, total, by ICP	<0.05 mg/L								75-110	29	EPA 200.7	07/16/10 DBL	
Mercury, total, low level	<0.0002 mg/L								88-115	20	EPA 245.2	07/16/10 DBL	
Methylene chloride	<1 ug/L								75-118	18	EPA 624	07/16/10 JAR	
Nickel, total	<0.02 mg/L								87-110	20	EPA 200.7	07/16/10 DBL	
Nitrogen, total kjeldahl	<5 mg/L								80-129	31	EPA 351.2	07/16/10 DMC	
Oil and grease (HEM)	<5 mg/L								81-110	48	EPA 1664	07/16/10 GMB	
PCB	See below									EPA 608	07/16/10 GMB		
PCB Aroclor 1016	<0.2 ug/L								29-135	25	EPA 608	07/16/10 GMB	
PCB Aroclor 1221	<0.2 ug/L									EPA 608	07/16/10 GMB		
PCB Aroclor 1232	<0.2 ug/L									EPA 608	07/16/10 GMB		

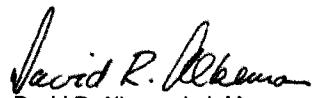
KAR Laboratories, Inc.

(269) 381-9666

Page 3 of 4

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102812**

Date Reported : **07/21/10**

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>		Date Sampled :						Sample Type : <u>LMB</u> Sample No. : <u>102812-02</u>							
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On	By	QC Batch	Comments	
PCB Aroclor 1242	<0.2 ug/L								12-113 5	EPA 608	07/16/10	GMB			
PCB Aroclor 1240	<0.2 ug/L								57-74 6	EPA 608	07/16/10	GMB			
PCB Aroclor 1254	<0.2 ug/L								10	EPA 608	07/16/10	GMB			
PCB Aroclor 1260	<0.2 ug/L								29-135 25	EPA 608	07/16/10	GMB			
PCB Aroclors, total	NA								16-128	EPA 608	07/16/10	GMB			
Phenols, total	<0.02 mg/L								65-130 36	EPA 420.4	07/21/10	ALK			
Phosphorus, total (as P)	<0.02 mg/L								82-117 18	SM 4500-P E,B5	07/16/10	DMC			
Prep, ECD	Completed									EPA 608	07/16/10	KTL			
Prep, Hg	Completed									EPA 245.2	07/16/10	DBL			
Prep, VOA	Completed									EPA 624	07/16/10	JAR			
Prep, metals	Completed									EPA 30xx,200.x	07/16/10	DBL			
Prior. Poll. volatiles	See below									EPA 624	07/16/10	JAR			
Silver, total	<0.005 mg/L								80-107 20	EPA 200.7	07/16/10	DBL			
Sulfide	<2 mg/L								76-121 22	EPA 376.2	07/21/10	ALK			
Suspended solids, total	<4 mg/L									25	SM 2540 D	07/16/10	DMC		
Tetrachloroethene	<1 ug/L								84-119 38	EPA 624	07/16/10	JAR			
Tin, total	<0.1 mg/L								73-122 20	EPA 200.7	07/16/10	DBL			
Toluene	<1 ug/L								76-125 13	EPA 624	07/16/10	JAR			
Toluene-D8 (surv spk)	103 % spike recovery								71-123 NA	EPA 624	07/16/10	JAR			
Trans-1,2-Dichloroethene	<1 ug/L								89-118 32	EPA 624	07/16/10	JAR			
Trans-1,3-Dichloropropene	<1 ug/L								87-122 9	EPA 624	07/16/10	JAR			
Trichloroethene	<1 ug/L								71-120 14	EPA 624	07/16/10	JAR			
Trichlorofluoromethane	<1 ug/L								81-112 19	EPA 624	07/16/10	JAR			
Vinyl chloride	<1 ug/L								49-164 24	EPA 624	07/16/10	JAR			
Zinc, total	<0.02 mg/L								86-115 20	EPA 200.7	07/16/10	DBL			

KAR Laboratories, Inc.

(269) 381-9666

BATCH QC REPORT

Printed : 04:27:39 PM, 07/21/10

Test	QC Batch	Date	Conc. (Original)	Spike Conc.	Matrix Spike Conc.	% Rec.	Matrix Spike Duplicate Conc.	% Rec.	Spike Dup. RPD	Dup. #1	Dup. #2	Dup. RPD	QC LIMITS Rec. Range	RPD	Sample No.
Arsenic, total, by ICP	100716PE1	07/16/10	0	0.1	0.105	105.0 %	0.103	103.0 %	1.9 %				93-122	20	102812-01
Barium, total	100716PE1	07/16/10	.9	0.1	0.9974	97.4 %							77-120	20	102699-01
Barium, total	100716PE1	07/16/10	.11	0.1	0.207	97.0 %							77-120	20	102730-01
Barium, total	100716PE1	07/16/10	.28										77-120	20	102730-02
Barium, total	100716PE1	07/16/10	.394										77-120	20	102733-09
Beryllium, total	100716PE1	07/16/10	0	0.02	0.0213	106.4 %							85-128	20	102699-01
Beryllium, total	100716PE1	07/16/10	0	0.02	0.0213	106.5 %							85-128	20	102730-01
Beryllium, total	100716PE1	07/16/10	0										85-128	20	102730-02
COD	100716CD1	07/16/10	10										11.85	9.22	24.9 %
COD	100716CD1	07/16/10	7.6	40	43.3	89.2 %							72-117	46	102723-02
Cadmium, total	100716PE1	07/16/10	0	0.02	0.0185	92.5 %							88-109	20	102730-01
Cadmium, total	100716PE1	07/16/10	0										88-109	20	102730-02
Cadmium, total	100716PE1	07/16/10	0	0.02	0.02	99.9 %	0.0195	97.4 %	2.5 %				88-109	20	102812-01
Calcium, dissolved	100719PE1	07/19/10	66.6	10	76.49	98.9 %							65-128	20	102826-01
Calcium, dissolved	100719PE1	07/19/10	131										65-128	20	102826-02
Calcium, total	100716PE1	07/16/10	149	20	169.9	104.5 %							80-119	20	102730-01
Calcium, total	100716PE1	07/16/10	118										80-119	20	102730-02
Chromium, total	100716PE1	07/16/10	0	0.1	0.092	92.0 %							89-110	20	102699-01
Chromium, total	100716PE1	07/16/10	0	0.1	0.097	97.0 %							89-110	20	102730-01
Chromium, total	100716PE1	07/16/10	0										89-110	20	102730-02
Chromium, total	100716PE1	07/16/10	0	0.1	0.098	98.0 %	0.097	97.0 %	1.0 %				89-110	20	102812-01
Copper, total	100716PE1	07/16/10	0	0.1	0.088	88.0 %							76-105	20	102699-01
Copper, total	100716PE1	07/16/10	0	0.1	0.09	90.0 %	0.089	88.0 %	1.1 %				76-105	20	102812-01
Cyanide, total	100716CN1	07/16/10	0										4.44	5.54	22.0 %
Cyanide, total	100716CN1	07/16/10	100		87.5	87.5 %							76-111	20	102731-05
Iron, dissolved	100719PE1	07/19/10	0	10	10.12	101.2 %							87-112	20	102731-07
Iron, dissolved	100719PE1	07/19/10	0										87-112	20	102826-01
Iron, total	100716PE1	07/16/10	95.5	21	116.4	99.5 %							87-112	20	102699-01
Iron, total	100716PE1	07/16/10	2	21	22.47	97.5 %							87-112	20	102723-02
Iron, total	100716PE1	07/16/10	4.36		24.84	96.6 %							87-112	20	102730-01
Iron, total	100716PE1	07/16/10	2.01										87-112	20	102730-02
Iron, total	100716PE1	07/16/10	.98										87-112	20	102736-02
Lead, total, by ICP	100716PE1	07/16/10	0	0.1	0.095	95.0 %	0.093	93.0 %	2.1 %				75-110	20	102812-01
Magnesium, dissolved	100719PE1	07/19/10	16.5	10	26.73	102.3 %							80-121	20	102826-01
Magnesium, dissolved	100719PE1	07/19/10	29.8										80-121	20	102826-02
Magnesium, total	100716PE1	07/16/10	84.9	20	104	95.5 %							84-121	20	102699-01
Magnesium, total	100716PE1	07/16/10	51.9		72.56	103.3 %							84-121	20	102730-01
Magnesium, total	100716PE1	07/16/10	40.9										84-121	20	102730-02
Manganese, total	100716PE1	07/16/10	2.1	0.1	2.218	118.0 %							72-125	20	102699-01
Manganese, total	100716PE1	07/16/10	14	0.1	0.239	96.0 %							72-125	20	102730-01
Manganese, total	100716PE1	07/16/10	.11										72-125	20	102730-02
Manganese, total	100716PE1	07/16/10	.23										72-125	20	102736-02
Mercury, total	100716HCV	07/16/10	0										92-109	20	102730-02
Mercury, total, low level	100716HCV	07/16/10	0	0.002	0.0021	104.0 %							88-115	20	102812-01
Molybdenum, total	100716PE1	07/16/10	.03										87-126	20	102663-01
Nickel, total	100716PE1	07/16/10	0	0.1	0.0881	88.1 %							87-110	20	102730-01
Nickel, total	100716PE1	07/16/10	0										87-110	20	102730-02
Nickel, total	100716PE1	07/16/10	0	0.1	0.096	96.0 %	0.094	94.0 %	2.1 %				87-110	20	102812-01
Nitrogen, total kjeldahl	100716TK1	07/16/10	5		4.289	85.8 %							80-129	31	102812-01
Oil and grease (HEM)	100716OHB	07/16/10	0	40	38.2	95.5 %							81-110	48	102812-01
PCB Aroclor 1016	100708SF8	07/08/10	0	0.5	0.375	75.0 %	0.406	81.2 %	7.9 %				29-195	25	102658-02
PCB Aroclor 1260	100708SF8	07/08/10	0	0.5	0.368	73.6 %	0.429	85.8 %	15.3 %				29-135	25	102658-02
PH	100716PH1	07/16/10	7.2										7.2	7.15	0.7 %
Phosphate, total	100720PDI1	07/21/10	0.025		0.024	98.0 %							55-100	20	102812-01

This "Batch QC" section of the QC Report contains data from samples analyzed in the same Extraction Batch (analytical run) as the samples that you submitted. Please refer to the previous QC Report section for QC information specific to your samples. This report may only be reproduced in full and not without written consent.

KAR Laboratories, Inc.

(269) 381-9666

QC Batch Report

Page 1 of 2

BATCH QC REPORT

Printed : 04:27:39 PM, 07/21/10

Test	QC Batch	Date	Conc. (Original)	Spike Conc.	Matrix Spike Conc.	% Rec.	Matrix Spike Conc.	% Rec.	Spike Dup. RPD	Dup. #1	Dup. #2	Dup. RPD	QC LIMITS Rec. Range	QC LIMITS RPD	Sample No.
Phosphorus, total (as P)	100716PR1	07/16/10	.05	0.2	0.249	99.5 %				.04	.04	16.0 %	82-117	18	102608-02
Phosphorus, total (as P)	100716PR1	07/16/10	.04										82-117	18	102641-01
Phosphorus, total (as P)	100716PR1	07/16/10	170										82-117	18	102656-01
Phosphorus, total (as P)	100716PR1	07/16/10	130	200	338.6	104.3 %				158.8	171.7	7.8 %	82-117	18	102656-02
Phosphorus, total (as P)	100716PR1	07/16/10	.88							.88	.88	0.0 %	82-117	18	102663-01
Phosphorus, total (as P)	100716PR1	07/16/10	.02	0.2	0.207	94.7 %							82-117	18	102709-02
Potassium, dissolved	100719PE1	07/19/10	1	10	11.23	102.3 %							86-117	20	102826-01
Potassium, dissolved	100719PE1	07/19/10	2.1										86-117	20	102826-02
Potassium, total	100716PE1	07/16/10	10.7	20	31.6	104.5 %				2.11	2.1	0.3 %	85-118	20	102699-01
Potassium, total	100716PE1	07/16/10	1.9	20	22.54	103.2 %							85-118	20	102730-01
Potassium, total	100716PE1	07/16/10	2.2							2.16	2.17	0.5 %	85-118	20	102730-02
Potassium, total	100716PE1	07/16/10	18							18.04	17.96	0.4 %	85-118	20	102736-02
Silver, total	100716PE1	07/16/10	0	0.1	0.098	98.0 %	0.096	96.0 %	2.1 %				80-107	20	102812-01
Sodium, dissolved	100719PE1	07/19/10	2.5	10	14.8	123.0 %							77-134	20	102826-01
Sodium, dissolved	100719PE1	07/19/10	10.6							10.63	10.6	0.3 %	77-134	20	102826-02
Sodium, total	100716PE1	07/16/10	194	20	216.6	113.0 %							60-149	20	102699-01
Sodium, total	100716PE1	07/16/10	23.2	20	47.58	121.9 %							60-149	20	102730-01
Sodium, total	100716PE1	07/16/10	38.1							37.99	38.26	0.7 %	60-149	20	102730-02
Sodium, total	100716PE1	07/16/10	158							157.3	159.7	1.5 %	60-149	20	102736-02
Strontium, total	100716PE1	07/16/10	1310							1305	1317	0.9 %	68-135	20	102733-09
Sulfide	100721SU1	07/21/10	0							0	0		76-121	22	102812-01
Suspended solids, total	100716SS1	07/16/10	5							4.8	4.8	0.0 %	73-122	20	102812-01
Tin, total	100719PE1	07/19/10	0	0.4	0.3004	75.1 %	0.3805	95.1 %	23.5 %				86-115	20	102699-01
Zinc, total	100716PE1	07/16/10	0	0.5	0.457	91.4 %							86-115	20	102612-01
Zinc, total	100716PE1	07/16/10	0	0.5	0.505	101.0 %	0.502	100.4 %	0.6 %						

This "Batch QC" section of the QC Report contains data from samples analyzed in the same Extraction Batch (analytical run) as the samples that you submitted. Please refer to the previous QC Report section for QC information specific to your samples. This report may only be reproduced in full and not without written consent.

KAR Laboratories, Inc.

(269) 381-9666

QC Batch Report

Page 2 of 2



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wiseman
Address: 14496 Sheldon Rd.	Copy To: Andie Dembrowske
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: 12th ST. LF
Fax: 734-453-5201	Project Number: 056913
Email:	

PAGE 1 OF 1

Laboratory: DKAR
Laboratory Location:
Laboratory Contact: G. Irvin
Requested Due Date: TAT: 24 hr.
QA/QC Requirements: See SSOW

ID # No D 6125

SSOW Ref. Code: 056913-03

Analysis and Method

Sample Identification:

1.	WT	7/16/10	0805	9	2	3	1	1	X	X	X	X	X	X	X	X	X	X	Tank # 485
2.																			
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
11.																			
12.																			
13.																			
14.																			
15.																			

TOTAL NUMBER OF CONTAINERS 9

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
CRA truck	1	Dan Nelson	7/16/10	1145	Judy Deppeler / CRA	7/16/10	
AIRBILL NO.					Judge Spangler	7/16/10	1150

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: DAN NELSON
Sampler Signature: Dan Nelson Date: 7/16/10

Distribution:

WHITE - Fully Executed Copy

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampler Copy

REV 01/04

INSTRUCTIONS

1. Complete all client information at top of sheet: e-mail address (person to whom the electronic data deliverable will be sent and contact can be made if questions arise), billing information, PO#, project name and project number as it will appear on the report.
2. A separate COC must be filled out for each day of sample collection.
3. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.
4. Complete Sample Identification as it will appear on the laboratory report, including time of sampling, CRA specific matrix code (see below for more matrix codes), number of containers and preservative used.
5. Complete the analysis requested on the lines provided and mark which samples require the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.
6. Sign relinquished by and affiliation at bottom of page and confirm that transfer time and dates match.

Commonly used CRA specific matrix codes:

Liquid	Solid	Air	Other
WB Borehole Water	SE Sediment	GE Gaseous Effluent (Stack Gas)	SW Swab/Swipe
WG Groundwater	CC Concrete	GS Soil Gas	TA Animal Tissue
WM Stormwater	SL Sludge		TP Plant Tissue
WP Drinking Water	SLRY Slurry		
WQ Water Quality Matrix*	SO Soil		
WS Surface Water	ST Solid Waste		
WSW Sump Water			
WT Treated Effluent			
WW Waste Water			
LNAPL Light Non-Aqueous Phase Liquid			
DNAPL Dense Non-Aqueous Phase Liquid			

*Used for Trip Blanks and Equipment Blanks



4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102905
Date Reported : 07/23/10
Date Activated : 07/22/10
Date Due : 07/23/10
Date Validated : 07/23/10

Project

**Description : Analysis of two aqueous samples from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102905. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : 102905

Date Reported: 07/23/10

Project

Description: Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : "WW-056913-072110-DN-011"

Sampled By : DN of CRA Services

Date Received : 07/22/10

Sample Date : 07/21/10

Sample Type : aqueous

Sample Time : 1430

KAR Sample No. : 102905-01

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/22/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/22/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/22/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/22/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/22/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Zinc, total	0.02	mg/L	EPA 200.7	07/22/10	DBL	
COD	<10	mg/L	EPA 410.4	07/22/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/22/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/22/10	JHB	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/22/10	GMB	
PH	7.8	S.U.	SM 4500-H B	07/22/10	GJE	Sample received past holding time; result is approximate.
Phenols, total	<0.02	mg/L	EPA 420.4	07/22/10	ALK	
Phosphorus, total (as P)	0.05	mg/L	SM 4500-P E,B5	07/22/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/23/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/22/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/22/10	KTL	
Prep, VOA	Completed		EPA 624	07/22/10	KTL	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/22/10	KTL	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/22/10	KTL	
Acrolein	<20	ug/L	EPA 624	07/22/10	KTL	
Acrylonitrile	<2	ug/L	EPA 624	07/22/10	KTL	
Benzene	<1	ug/L	EPA 624	07/22/10	KTL	
Bromodichloromethane	<1	ug/L	EPA 624	07/22/10	KTL	

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported: **07/23/10**

Project

Description: **Analysis of two aqueous samples from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-072110-DN-011"**

Sampled By : **DN of CRA Services**

Date Received : **07/22/10**

Sample Date : **07/21/10**

Sample Type : **aqueous**

Sample Time : **1430**

KAR Sample No. : **102905-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/22/10	KTL	
Bromomethane	<1	ug/L	EPA 624	07/22/10	KTL	
Carbon tetrachloride	<1	ug/L	EPA 624	07/22/10	KTL	
Chlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroform	<1	ug/L	EPA 624	07/22/10	KTL	
Chloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Dibromochloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Ethylbenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Methylene chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Tetrachloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Toluene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Vinyl chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Prep, ECD	Completed		EPA 608	07/22/10	KTL	
PCB	See below		EPA 608	07/22/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/22/10	GMB	
12DCA-D4 (surr spk)	101	% spike recovery	EPA 624	07/22/10	KTL	
BFB (surr spk)	89	% spike recovery	EPA 624	07/22/10	KTL	
Toluene-D8 (surr spk)	109	% spike recovery	EPA 624	07/22/10	KTL	
DCB (pest/PCB surr spk)	59	% spike recovery	EPA 608	07/22/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported: **07/23/10**

Project

Description: **Analysis of two aqueous samples from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-072210-DN-012"**

Sampled By : **DN of CRA Services**

Date Received : **07/22/10**

Sample Date : **07/22/10**

Sample Type : **aqueous**

Sample Time : **0753**

KAR Sample No. : **102905-02**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep. Hg	Completed		EPA 245.2	07/22/10	DBL	
Prep. metals	Completed		EPA 30xx,200.x	07/22/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/22/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/22/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/22/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
COD	<10	mg/L	EPA 410.4	07/22/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/22/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/22/10	JHB	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/22/10	GMB	
PH	8.0	S.U.	SM 4500-H B	07/22/10	GJE	
Phenols, total	<0.02	mg/L	EPA 420.4	07/22/10	ALK	
Phosphorus, total (as P)	0.04	mg/L	SM 4500-P E,B5	07/22/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/23/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/22/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/22/10	KTL	
Prep, VOA	Completed		EPA 624	07/22/10	KTL	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/22/10	KTL	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/22/10	KTL	
Acrolein	<20	ug/L	EPA 624	07/22/10	KTL	
Acrylonitrile	<2	ug/L	EPA 624	07/22/10	KTL	
Benzene	<1	ug/L	EPA 624	07/22/10	KTL	
Bromodichloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Bromoform	<1	ug/L	EPA 624	07/22/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported: **07/23/10**

Project

Description: **Analysis of two aqueous samples from 12th St. Landfill (#56913-60).**

Sample ID : **"WW-056913-072210-DN-012"**

Sampled By : **DN of CRA Services**

Date Received : **07/22/10**

Sample Date : **07/22/10**

Sample Type : **aqueous**

Sample Time : **0753**

KAR Sample No. : **102905-02**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromomethane	<1	ug/L	EPA 624	07/22/10	KTL	
Carbon tetrachloride	<1	ug/L	EPA 624	07/22/10	KTL	
Chlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroform	<1	ug/L	EPA 624	07/22/10	KTL	
Chloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Dibromochloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Ethylbenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Methylene chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Tetrachloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Toluene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Vinyl chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Prep, ECD	Completed		EPA 608	07/22/10	KTL	
PCB	See below		EPA 608	07/22/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/22/10	GMB	
12DCA-D4 (surr spk)	101	% spike recovery	EPA 624	07/22/10	KTL	
BFB (surr spk)	88	% spike recovery	EPA 624	07/22/10	KTL	
Toluene-D8 (surr spk)	110	% spike recovery	EPA 624	07/22/10	KTL	
DCB (pest/PCB surr spk)	58	% spike recovery	EPA 608	07/22/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 5

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported: **07/23/10**

Project

Description: **Analysis of two aqueous samples from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/22/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102905-03			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep. Hg	Completed		EPA 245.2	07/22/10	DBL	
Prep. metals	Completed		EPA 30xx,200.x	07/22/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/22/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/22/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/22/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/22/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/22/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/22/10	DBL	
COD	<10	mg/L	EPA 410.4	07/22/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/22/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/22/10	JHB	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/22/10	GMB	
Phenols, total	<0.02	mg/L	EPA 420.4	07/22/10	ALK	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/22/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/23/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/22/10	DMC	
Prior. Poll. volatiles	See below		EPA 624	07/22/10	KTL	
Prep. VOA	Completed		EPA 624	07/22/10	KTL	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/22/10	KTL	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/22/10	KTL	
Acrolein	<20	ug/L	EPA 624	07/22/10	KTL	
Acrylonitrile	<2	ug/L	EPA 624	07/22/10	KTL	
Benzene	<1	ug/L	EPA 624	07/22/10	KTL	
Bromodichloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Bromoform	<1	ug/L	EPA 624	07/22/10	KTL	
Bromomethane	<1	ug/L	EPA 624	07/22/10	KTL	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported: **07/23/10**

Project

Description: **Analysis of two aqueous samples from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/22/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102905-03			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/22/10	KTL	
Chlorobenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroethane	<1	ug/L	EPA 624	07/22/10	KTL	
Chloroform	<1	ug/L	EPA 624	07/22/10	KTL	
Chloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Dibromochloromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Ethylbenzene	<1	ug/L	EPA 624	07/22/10	KTL	
Methylene chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Tetrachloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Toluene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichloroethene	<1	ug/L	EPA 624	07/22/10	KTL	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/22/10	KTL	
Vinyl chloride	<1	ug/L	EPA 624	07/22/10	KTL	
Prep, ECD	Completed		EPA 608	07/22/10	KTL	
PCB	See below		EPA 608	07/22/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/22/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/22/10	GMB	
12DCA-D4 (surr spk)	96	% spike recovery	EPA 624	07/22/10	KTL	
BFB (surr spk)	89	% spike recovery	EPA 624	07/22/10	KTL	
Toluene-D8 (surr spk)	110	% spike recovery	EPA 624	07/22/10	KTL	
DCB (pest/PCB surr spk)	57	% spike recovery	EPA 608	07/22/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

KAR Laboratories, Inc.



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102905
Date Reported : 07/23/10
Date Activated : 07/22/10
Date Due : 07/23/10
Date Validated : 07/23/10

Project

**Description : Analysis of two aqueous samples from 12th St. Landfill
(#56913-60).**

Dear Client,

Please find attached a copy of the QC Report for KAR Project No. 102905. The report might contain a second section entitled "QC Batch Report". This section will contain matrix-specific quality control information for the analytical batch, if applicable. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

For duplicate sample calculations, concentrations are considered zero if less than or equal to the reporting limit. For spiked sample calculations, original sample concentration is also considered zero if less than or equal to the reporting limit. For general QA/QC procedures please consult the KAR Laboratories Quality Assurance Manual.

I hope that you find our services accurate and complete. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

A handwritten signature in black ink that reads 'David R. Alkema'.

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health.

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported : **07/23/10**

Project Description : Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : <u>"WW-056913-072110-DN-011"</u>		Date Sampled : <u>07/21/10</u>							Sample Type : <u>aqueous</u>				
Sampled By : <u>DN of CRA Services</u>		Time Sampled : <u>1430</u>							Sample No. : <u>102905-01</u>				
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method	Analyzed On	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L								80-117	19	EPA 624	07/22/10 KTL	
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122	11	EPA 624	07/22/10 KTL	
1,1,2-Trichloroethane	<1 ug/L								92-109	20	EPA 624	07/22/10 KTL	
1,1-Dichloroethane	<1 ug/L								84-127	13	EPA 624	07/22/10 KTL	
1,1-Dichloroethene	<1 ug/L	25	100.6 %	103.8 %	3.1 %				61-145	14	EPA 624	07/22/10 KTL	072210MW 1
1,2-Dichlorobenzene	<1 ug/L								76-127	12	EPA 624	07/22/10 KTL	
1,2-Dichloroethane	<1 ug/L								72-129	21	EPA 624	07/22/10 KTL	
1,2-Dichloropropane	<1 ug/L								89-110	5	EPA 624	07/22/10 KTL	
1,3-Dichlorobenzene	<1 ug/L								88-119	5	EPA 624	07/22/10 KTL	
1,4-Dichlorobenzene	<1 ug/L								80-123	22	EPA 624	07/22/10 KTL	
12DCA-D4 (surr spk)	101 % spike recovery								63-132	NA	EPA 624	07/22/10 KTL	
2-Chlorostylylvinyl ether	<10 ug/L								38-165	16	EPA 624	07/22/10 KTL	
Acrolein	>20 ug/L									EPA 624	07/22/10 KTL		
Acrylonitrile	<2 ug/L								66-93	36	EPA 624	07/22/10 KTL	
Arsenic, total, by ICP	<0.1 mg/L		0.1	109.6 %					94-121	20	EPA 200.7	07/22/10 DBL	100722PE1
BFB (surr spk)	89 % spike recovery								88-135	NA	EPA 624	07/22/10 KTL	
Benzene	<1 ug/L	25	105.9 %	106.3 %	0.4 %				76-127	11	EPA 624	07/22/10 KTL	072210MW 1
Bromodichloromethane	<1 ug/L								80-113	23	EPA 624	07/22/10 KTL	
Bromoform	<1 ug/L								76-119	25	EPA 624	07/22/10 KTL	
Bromomethane	<1 ug/L								44-153	21	EPA 624	07/22/10 KTL	
COD	<10 mg/L	40	102.6 %						71-118	46	EPA 410.4	07/22/10 DBL	100722CD1
Cadmium, total	<0.005 mg/L	0.02	99.5 %						88-109	20	EPA 200.7	07/22/10 DBL	100722PE1
Carbon tetrachloride	<1 ug/L								87-114	6	EPA 624	07/22/10 KTL	
Chlorobenzene	<1 ug/L	25	99.8 %	101.5 %	1.7 %				75-130	13	EPA 624	07/22/10 KTL	072210MW 1
Chloroethane	<1 ug/L								61-122	31	EPA 624	07/22/10 KTL	
Chloroform	<1 ug/L								76-119	18	EPA 624	07/22/10 KTL	
Chloromethane	<1 ug/L								56-125	21	EPA 624	07/22/10 KTL	
Chromium, total	<0.01 mg/L	0.1	98.0 %						89-110	20	EPA 200.7	07/22/10 DBL	100722PE1
Cis-1,3-Dichloropropene	<1 ug/L								86-123	10	EPA 624	07/22/10 KTL	
Copper, total	<0.02 mg/L	0.1	97.0 %						76-105	20	EPA 200.7	07/22/10 DBL	100722PE1
Cyanide, total	<0.005 mg/L	0.1	97.0 %			0	0		76-111	20	SM 4500-CN C,E	07/22/10 ALK	100722CN1
DCB (pest/PCB surr spk)	59 % spike recovery								25-121	NA	EPA 608	07/22/10 GMB	
Dibromochloromethane	<1 ug/L								60-115	29	EPA 624	07/22/10 KTL	
Ethylbenzene	<1 ug/L								70-131	30	EPA 624	07/22/10 KTL	
Lead, total, by ICP	<0.05 mg/L	0.1	95.0 %						75-110	20	EPA 200.7	07/22/10 DBL	100722PE1
Mercury, total, low level	<0.0002 mg/L	0.002	102.4 %						88-115	20	EPA 245.2	07/22/10 DBL	100722HCV
Methylene chloride	<1 ug/L								75-118	18	EPA 624	07/22/10 KTL	
Nickel, total	<0.02 mg/L	0.1	96.0 %						86-111	20	EPA 200.7	07/22/10 DBL	100722PE1
Nitrogen, total kjeldahl	<5 mg/L					0	0		81-130	31	EPA 351.2	07/22/10 JHB	100722TK1
Oil and grease (HEM)	<5 mg/L	40	97.2 %						81-110	48	EPA 1664	07/22/10 GMB	100722OHB
PCB	See below									EPA 608	07/22/10 GMB		
PCB Aroclor 1016	<0.2 ug/L								29-135	25	EPA 608	07/22/10 GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 1 of 6

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported : **07/23/10**

Project Description : Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : <u>"WW-056913-072110-DN-011"</u>													
Sampled By : <u>DN of CRA Services</u>				Date Sampled : <u>07/21/10</u>						Sample Type : <u>aqueous</u>			
Date Received : <u>07/22/10</u>						Time Sampled : <u>1430</u>				Sample No. : <u>102905-01</u>			
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On By	QC Batch	Comments
PCB Aroclor 1221	<0.2 ug/L								EPA 608	07/22/10 GMB			
PCB Aroclor 1232	<0.2 ug/L								EPA 608	07/22/10 GMB			
PCB Aroclor 1242	<0.2 ug/L								12-113	5	EPA 608	07/22/10 GMB	
PCB Aroclor 1248	<0.2 ug/L								57-74	6	EPA 608	07/22/10 GMB	
PCB Aroclor 1254	<0.2 ug/L									10	EPA 608	07/22/10 GMB	
PCB Aroclor 1268	<0.2 ug/L								29-135	25	EPA 608	07/22/10 GMB	
PCB Aroclors, total	NA								16-128		EPA 608	07/22/10 GMB	
PH	7.8 S.U.								5	SM 4500-H B	07/22/10 GJE		
Phenols, total	<0.02 mg/L								65-130	36	EPA 420.4	07/22/10 ALK	
Phosphorus, total (as P)	0.05 mg/L								84-115	18	SM 4500-P E,B5	07/22/10 DMC	
Prep, ECD	Completed										EPA 608	07/22/10 KTL	
Prep, Hg	Completed										EPA 245.2	07/22/10 DBL	
Prep, VOA	Completed										EPA 624	07/22/10 KTL	
Prep, metals	Completed										EPA 30xx,200.x	07/22/10 DBL	
Prior. Poll. volatiles	See below										EPA 624	07/22/10 KTL	
Silver, total	<0.005 mg/L	0.1	91.0 %						80-107	20	EPA 200.7	07/22/10 DBL	100722PE1
Sulfide	<2 mg/L					0	0		76-121	22	EPA 376.2	07/23/10 ALK	100723SU1
Suspended solids, total	<4 mg/L					0	0			25	SM 2540 D	07/22/10 DMC	100722SS1
Tetrachloroethene	<1 ug/L								84-119	38	EPA 624	07/22/10 KTL	
Tin, total	<0.1 mg/L	0.4	99.8 %						73-122	20	EPA 200.7	07/22/10 DBL	100722PE1
Toluene	<1 ug/L	25	104.6 %	105.2 %	0.5 %				76-125	13	EPA 624	07/22/10 KTL	072210MW 1
Toluene-D8 (surv spk)	109 % spike recovery								71-123	NA	EPA 624	07/22/10 KTL	
Trans-1,2-Dichloroethene	<1 ug/L								89-118	32	EPA 624	07/22/10 KTL	
Trans-1,3-Dichloropropene	<1 ug/L								87-122	9	EPA 624	07/22/10 KTL	
Trichloroethene	<1 ug/L	25	101.4 %	104.7 %	3.3 %				71-120	14	EPA 624	07/22/10 KTL	072210MW 1
Trichlorofluoromethane	<1 ug/L								81-112	19	EPA 624	07/22/10 KTL	
Vinyl chloride	<1 ug/L								49-164	24	EPA 624	07/22/10 KTL	
Zinc, total	0.02 mg/L	0.5	100.0 %						86-115	20	EPA 200.7	07/22/10 DBL	100722PE1

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported : **07/23/10**

Project Description : Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : <u>"WW-056913-072210-DN-012"</u>		Date Sampled : <u>07/22/10</u>						Sample Type : <u>aqueous</u>							
Sampled By : <u>DN of CRA Services</u>		Time Sampled : <u>0753</u>						Sample No. : <u>102905-02</u>							
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method RPD	Analyzed On	By	QC Batch	Comments	
1,1,1-Trichloroethane	<1 ug/L								80-117	19	EPA 624	07/22/10	KTL		
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122	11	EPA 624	07/22/10	KTL		
1,1,2-Trichloroethane	<1 ug/L								92-109	20	EPA 624	07/22/10	KTL		
1,1-Dichloroethane	<1 ug/L								84-127	13	EPA 624	07/22/10	KTL		
1,1-Dichloroethene	<1 ug/L								61-145	14	EPA 624	07/22/10	KTL		
1,2-Dichlorobenzene	<1 ug/L								76-127	12	EPA 624	07/22/10	KTL		
1,2-Dichloroethane	<1 ug/L								72-129	21	EPA 624	07/22/10	KTL		
1,2-Dichloropropane	<1 ug/L								89-110	5	EPA 624	07/22/10	KTL		
1,3-Dichlorobenzene	<1 ug/L								88-119	5	EPA 624	07/22/10	KTL		
1,4-Dichlorobenzene	<1 ug/L								80-123	22	EPA 624	07/22/10	KTL		
12DCA-D4 (surr spk)	101 % spike recovery								63-132	NA	EPA 624	07/22/10	KTL		
2-Chloroethylvinyl ether	<10 ug/L								38-165	16	EPA 624	07/22/10	KTL		
Acrolein	<20 ug/L										EPA 624	07/22/10	KTL		
Acrylonitrile	<2 ug/L								66-93	36	EPA 624	07/22/10	KTL		
Arsenic, total, by ICP	<0.1 mg/L					0	0		94-121	20	EPA 200.7	07/22/10	DBL	100722PE1	
BFB (surr spk)	88 % spike recovery								88-135	NA	EPA 624	07/22/10	KTL		
Benzene	<1 ug/L								76-127	11	EPA 624	07/22/10	KTL		
Bromodichloromethane	<1 ug/L								80-113	23	EPA 624	07/22/10	KTL		
Bromoform	<1 ug/L								76-119	25	EPA 624	07/22/10	KTL		
Bromomethane	<1 ug/L								44-153	21	EPA 624	07/22/10	KTL		
COD	<10 mg/L					0	0		71-118	46	EPA 410.4	07/22/10	DBL	100722CD1	
Cadmium, total	<0.005 mg/L					0	0		88-109	20	EPA 200.7	07/22/10	DBL	100722PE1	
Carbon tetrachloride	<1 ug/L								87-114	6	EPA 624	07/22/10	KTL		
Chlorobenzene	<1 ug/L								75-130	13	EPA 624	07/22/10	KTL		
Chloroethane	<1 ug/L								61-122	31	EPA 624	07/22/10	KTL		
Chloroform	<1 ug/L								76-119	18	EPA 624	07/22/10	KTL		
Chloromethane	<1 ug/L								56-125	21	EPA 624	07/22/10	KTL		
Chromium, total	<0.01 mg/L					0	0		69-110	20	EPA 200.7	07/22/10	DBL	100722PE1	
Cis-1,3-Dichloropropene	<1 ug/L								86-123	10	EPA 624	07/22/10	KTL		
Copper, total	<0.02 mg/L					0	0		76-105	20	EPA 200.7	07/22/10	DBL	100722PE1	
Cyanide, total	<0.005 mg/L	0.1 98.0 %							76-111	20	SM 4500-CN C,E	07/22/10	ALK	100722CN1	
DCB (pest/PCB surr spk)	58 % spike recovery								25-121	NA	EPA 608	07/22/10	GMB		
Dibromochloromethane	<1 ug/L								80-115	29	EPA 624	07/22/10	KTL		
Ethylbenzene	<1 ug/L								70-131	30	EPA 624	07/22/10	KTL		
Lead, total, by ICP	<0.05 mg/L					0	0		75-110	20	EPA 200.7	07/22/10	DBL	100722PE1	
Mercury, total, low level	<0.0002 mg/L					0	0		88-115	20	EPA 245.2	07/22/10	DBL	100722HCV	
Methylene chloride	<1 ug/L								75-118	18	EPA 624	07/22/10	KTL		
Nickel, total	<0.02 mg/L					0	0		86-111	20	EPA 200.7	07/22/10	DBL	100722PE1	
Nitrogen, total kjeldahl	<5 mg/L	5 117.4 %							81-130	31	EPA 351.2	07/22/10	JHB	100722TK1	
Oil and grease (HEM)	<5 mg/L								81-110	48	EPA 1664	07/22/10	GMB		
PCB	See below										EPA 608	07/22/10	GMB		
PCB Aroclor 1016	<0.2 ug/L								29-135	25	EPA 608	07/22/10	GMB		
PCB Aroclor 1221	<0.2 ug/L										EPA 608	07/22/10	GMB		
PCB Aroclor 1232	<0.2 ug/L										EPA 608	07/22/10	GMB		

KAR Laboratories, Inc.

(269) 381-9666

Page 3 of 6

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported : **07/23/10**

Project Description : *Analysis of two aqueous samples from 12th St. Landfill (#56913-60).*

Sample ID : <u>"WW-056913-072210-DN-012"</u>		Date Sampled : 07/22/10	Time Sampled : 0753			Sample Type : aqueous	Sample No. : 102905-02						
Sampled By :	DN of CRA Services			Analyzed On	By								
Date Received :	07/22/10			QC Batch									
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On By	QC Batch	Comments
PCB Aroclor 1242	<0.2 ug/L								12-113	5	EPA 608	07/22/10 GMB	
PCB Aroclor 1248	<0.2 ug/L								57-74	6	EPA 608	07/22/10 GMB	
PCB Aroclor 1250	<0.2 ug/L								10	10	EPA 608	07/22/10 GMB	
PCB Aroclor 1260	<0.2 ug/L								29-135	25	EPA 608	07/22/10 GMB	
PCB Aroclors, total	NA								16-128	16	EPA 608	07/22/10 GMB	
PH	8.0 S.U.								5	5	SM 4500-H B	07/22/10 GJE	
Phenols, total	<0.02 mg/L								65-130	36	EPA 420.4	07/22/10 ALK	
Phosphorus, total (as P)	0.04 mg/L								84-115	18	SM 4500-P E,B5	07/22/10 DMC	
Prep, ECD	Completed										EPA 608	07/22/10 KTL	
Prep, Hg	Completed										EPA 245.2	07/22/10 DBL	
Prep, VOA	Completed										EPA 624	07/22/10 KTL	
Prep, metals	Completed										EPA 30xx,200.x	07/22/10 DBL	
Prior. Poll. volatiles	See below										EPA 624	07/22/10 KTL	
Silver, total	<0.005 mg/L					0	0		80-107	20	EPA 200.7	07/22/10 DBL	100722PE1
Sulfide	<2 mg/L								76-121	22	EPA 376.2	07/23/10 ALK	
Suspended solids, total	<4 mg/L								25	25	SM 2540 D	07/22/10 DMC	
Tetrachloroethene	<1 ug/L								84-119	38	EPA 624	07/22/10 KTL	
Tin, total	<0.1 mg/L					0	0		73-122	20	EPA 200.7	07/22/10 DBL	100722PE1
Toluene	<1 ug/L								76-125	13	EPA 624	07/22/10 KTL	
Toluene-D8 (surv spk)	110 % spike recovery								71-123	NA	EPA 624	07/22/10 KTL	
Trans-1,2-Dichloroethene	<1 ug/L								89-118	32	EPA 624	07/22/10 KTL	
Trans-1,3-Dichloropropene	<1 ug/L								87-122	9	EPA 624	07/22/10 KTL	
Trichloroethene	<1 ug/L								71-120	14	EPA 624	07/22/10 KTL	
Trichlorofluoromethane	<1 ug/L								81-112	19	EPA 624	07/22/10 KTL	
Vinyl chloride	<1 ug/L								49-164	24	EPA 624	07/22/10 KTL	
Zinc, total	<0.02 mg/L					0	0		86-115	20	EPA 200.7	07/22/10 DBL	100722PE1

QUALITY CONTROL REPORT

Client: CRA Services

Attest:

David R. Alkema, Lab Manager

KAR Project No. : 102905

Date Reported : 07/23/10

Project Description : Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>		Date Sampled :						Sample Type : LMB					
Sampled By :		Time Sampled :						Sample No. : 102905-03					
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method	Analyzed On By	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L								80-117	19	EPA 624	07/22/10 KTL	
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122	11	EPA 624	07/22/10 KTL	
1,1,2-Trichloroethane	<1 ug/L								92-109	20	EPA 624	07/22/10 KTL	
1,1-Dichloroethane	<1 ug/L								84-127	13	EPA 624	07/22/10 KTL	
1,1-Dichloroethene	<1 ug/L								61-145	14	EPA 624	07/22/10 KTL	
1,2-Dichlorobenzene	<1 ug/L								76-127	12	EPA 624	07/22/10 KTL	
1,2-Dichloroethane	<1 ug/L								72-129	21	EPA 624	07/22/10 KTL	
1,2-Dichloropropane	<1 ug/L								89-110	5	EPA 624	07/22/10 KTL	
1,3-Dichlorobenzene	<1 ug/L								88-119	5	EPA 624	07/22/10 KTL	
1,4-Dichlorobenzene	<1 ug/L								80-123	22	EPA 624	07/22/10 KTL	
12DCA-D4 (surrogate)	96 % spike recovery								63-132	NA	EPA 624	07/22/10 KTL	
2-Chloroethylvinyl ether	<10 ug/L								38-165	16	EPA 624	07/22/10 KTL	
Acrolein	<20 ug/L										EPA 624	07/22/10 KTL	
Acrylonitrile	<2 ug/L								66-93	36	EPA 624	07/22/10 KTL	
Arsenic, total, by ICP	<0.1 mg/L								94-121	20	EPA 200.7	07/22/10 DBL	
BFB (surrogate)	89 % spike recovery								88-135	NA	EPA 624	07/22/10 KTL	
Benzene	<1 ug/L								76-127	11	EPA 624	07/22/10 KTL	
Bromodichloromethane	<1 ug/L								80-113	23	EPA 624	07/22/10 KTL	
Bromoform	<1 ug/L								76-118	25	EPA 624	07/22/10 KTL	
Bromomethane	<1 ug/L								44-153	21	EPA 624	07/22/10 KTL	
COD	<10 mg/L								71-118	46	EPA 410.4	07/22/10 DBL	
Cadmium, total	<0.005 mg/L								88-109	20	EPA 200.7	07/22/10 DBL	
Carbon tetrachloride	<1 ug/L								87-114	6	EPA 624	07/22/10 KTL	
Chlorobenzene	<1 ug/L								75-130	13	EPA 624	07/22/10 KTL	
Chloroethane	<1 ug/L								61-122	31	EPA 624	07/22/10 KTL	
Chloroform	<1 ug/L								76-119	18	EPA 624	07/22/10 KTL	
Chloromethane	<1 ug/L								56-125	21	EPA 624	07/22/10 KTL	
Chromium, total	<0.01 mg/L								89-110	20	EPA 200.7	07/22/10 DBL	
Cis-1,3-Dichloropropene	<1 ug/L								86-123	10	EPA 624	07/22/10 KTL	
Copper, total	<0.02 mg/L								76-105	20	EPA 200.7	07/22/10 DBL	
Cyanide, total	<0.005 mg/L								76-111	20	SM 4500-CN C,E	07/22/10 ALK	
DCB (pest/PCB surrogate)	57 % spike recovery								25-121	NA	EPA 608	07/22/10 GMB	
Dibromochloromethane	<1 ug/L								80-115	29	EPA 624	07/22/10 KTL	
Ethylbenzene	<1 ug/L								70-131	30	EPA 624	07/22/10 KTL	
Lead, total, by ICP	<0.05 mg/L								75-110	20	EPA 200.7	07/22/10 DBL	
Mercury, total, low level	<0.0002 mg/L								88-115	20	EPA 245.2	07/22/10 DBL	
Methylene chloride	<1 ug/L								75-118	18	EPA 624	07/22/10 KTL	
Nickel, total	<0.02 mg/L								86-111	20	EPA 200.7	07/22/10 DBL	
Nitrogen, total kjeldahl	<5 mg/L								81-130	31	EPA 351.2	07/22/10 JHB	
Oil and grease (H EM)	<5 mg/L								81-110	48	EPA 1664	07/22/10 GMB	
PCB	See below										EPA 608	07/22/10 GMB	
PCB Aroclor 1016	<0.2 ug/L								29-135	25	EPA 608	07/22/10 GMB	
PCB Aroclor 1221	<0.2 ug/L										EPA 608	07/22/10 GMB	
PCB Aroclor 1232	<0.2 ug/L										EPA 608	07/22/10 GMB	

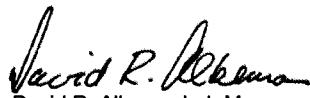
KAR Laboratories, Inc.

(269) 381-9666

Page 5 of 6

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102905**

Date Reported : **07/23/10**

Project Description : Analysis of two aqueous samples from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>											
				Date Sampled :				Sample Type : LMB			
				Time Sampled :				Sample No. : 102905-03			
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On By
PCB Aroclor 1242	<0.2 ug/L								12-113 5	EPA 608	07/22/10 GMB
PCB Aroclor 1248	<0.2 ug/L								57-74 6	EPA 608	07/22/10 GMB
PCB Aroclor 1254	<0.2 ug/L								10	EPA 608	07/22/10 GMB
PCB Aroclor 1260	<0.2 ug/L								29-135 25	EPA 608	07/22/10 GMB
PCB Aroclors, total	NA								16-128	EPA 608	07/22/10 GMB
Phenols, total	<0.02 mg/L								65-130 36	EPA 420.4	07/22/10 ALK
Phosphorus, total (as P)	<0.02 mg/L								84-115 18	SM 4500-P E,B5	07/22/10 DMC
Prep. ECD	Completed									EPA 608	07/22/10 KTL
Prep. Hg	Completed									EPA 245.2	07/22/10 DBL
Prep. VOA	Completed									EPA 624	07/22/10 KTL
Prep. metals	Completed									EPA 30xx,200.x	07/22/10 DBL
Prior. Poll. volatiles	See below									EPA 624	07/22/10 KTL
Silver, total	<0.005 mg/L								80-107 20	EPA 200.7	07/22/10 DBL
Sulfide	<2 mg/L								76-121 22	EPA 376.2	07/23/10 ALK
Suspended solids, total	<4 mg/L								25	SM 2540 D	07/22/10 DMC
Tetrachloroethene	<1 ug/L								84-119 38	EPA 624	07/22/10 KTL
Tin, total	<0.1 mg/L								73-122 20	EPA 200.7	07/22/10 DBL
Toluene	<1 ug/L								76-125 13	EPA 624	07/22/10 KTL
Toluene-D8 (surr spk)	110 % spike recovery								71-123 NA	EPA 624	07/22/10 KTL
Trans-1,2-Dichloroethene	<1 ug/L								89-118 32	EPA 624	07/22/10 KTL
Trans-1,3-Dichloropropene	<1 ug/L								87-122 9	EPA 624	07/22/10 KTL
Trichloroethene	<1 ug/L								71-120 14	EPA 624	07/22/10 KTL
Trichlorofluoromethane	<1 ug/L								81-112 19	EPA 624	07/22/10 KTL
Vinyl chloride	<1 ug/L								49-164 24	EPA 624	07/22/10 KTL
Zinc, total	<0.02 mg/L								86-115 20	EPA 200.7	07/22/10 DBL

BATCH QC REPORT

Printed : 04:32:35 PM, 07/23/10

Test	QC Batch	Date	Conc. (Original)	Spike Conc.	Matrix Spike Conc.	% Rec.	Matrix Spike Conc.	% Rec.	Spike Dup. RPD	Dup. #1	Dup. #2	Dup. RPD	QC LIMITS Rec. Range	RPD	Sample No.
1,1-Dichloroethene	072210MW1	07/22/10	0	25	25.14	100.6 %	25.94	103.8 %	3.1 %				61-145	14	102905-01
Arsenic, total, by ICP	100722PE1	07/22/10	0	0.1	0.1096	109.6 %							94-121	20	102905-01
Arsenic, total, by ICP	100722PE1	07/22/10											94-121	20	102905-02
Benzene	072210MW1	07/22/10	0	25	26.47	105.9 %	26.58	106.3 %	0.4 %	0	0		76-127	11	102905-01
COD	100722CD1	07/22/10	6.82	40	47.66	102.6 %							71-118	46	102905-01
COD	100722CD1	07/22/10	0										71-118	46	102905-02
Cadmium, total	100722PE1	07/22/10	0	0.02	0.0199	99.5 %							88-109	20	102905-01
Cadmium, total	100722PE1	07/22/10	0										88-109	20	102905-02
Chlorobenzene	072210MW1	07/22/10	0	25	24.94	99.8 %	25.37	101.5 %	1.7 %				75-130	13	102905-01
Chromium, total	100722PE1	07/22/10	0	0.1	0.098	98.0 %							89-110	20	102905-01
Chromium, total	100722PE1	07/22/10	0										89-110	20	102905-02
Copper, total	100722PE1	07/22/10	0	0.1	0.097	97.0 %							76-105	20	102905-01
Copper, total	100722PE1	07/22/10	0										76-105	20	102905-02
Cyanide, total	100722CN1	07/22/10	0	0.1	0.0955	95.5 %							76-111	20	102791-02
Cyanide, total	100722CN1	07/22/10	0										76-111	20	102905-01
Lead, total, by ICP	100722PE1	07/22/10	0	0.1	0.095	95.0 %							75-110	20	102905-01
Lead, total, by ICP	100722PE1	07/22/10	0										75-110	20	102905-02
Magnesium, total, low level	100722PE1	07/22/10	0	480	470.6	98.0 %							67-132	39	102864-01
Magnesium, total, low level	100722PE1	07/22/10	0										67-132	39	102864-02
Mercury, total, low level	100722HCV	07/22/10	0	0.002	0.0021	102.5 %							88-115	20	102799-02
Mercury, total, low level	100722HCV	07/22/10	0										88-115	20	102799-04
Mercury, total, low level	100722HCV	07/22/10	0	0.002	0.002	102.4 %							88-115	20	102905-01
Mercury, total, low level	100722HCV	07/22/10	0										88-115	20	102905-02
Nickel, total	100722PE1	07/22/10	0	0.1	0.096	96.0 %							86-111	20	102905-01
Nickel, total	100722PE1	07/22/10	0										86-111	20	102905-02
Nitrogen, total kjeldahl	100722TK1	07/22/10	0										81-130	31	102905-01
Nitrogen, total kjeldahl	100722TK1	07/22/10	0	5	5.869	117.4 %							81-130	31	102905-02
Oil and grease (HEM)	100722OHB	07/22/10	0	40	38.9	97.2 %							81-110	48	102905-01
PCB Aroclor 1016	100708SF8	07/08/10	0	0.5	0.375	75.0 %	0.406	81.2 %	7.9 %				29-135	25	102658-02
PCB Aroclor 1260	100708SF8	07/08/10	0	0.5	0.368	73.6 %	0.429	85.8 %	15.3 %				29-135	25	102658-02
Phosphorus, total (as P)	100722PR1	07/22/10	.53	1	1.5851	105.5 %							84-115	18	102612-01
Phosphorus, total (as P)	100722PR1	07/22/10	.43										84-115	18	102612-02
Phosphorus, total (as P)	100722PR1	07/22/10	.16										84-115	18	102733-01
Phosphorus, total (as P)	100722PR1	07/22/10	.18	0.2	0.3845	102.3 %							84-115	18	102733-02
Phosphorus, total (as P)	100722PR1	07/22/10	.4										84-115	18	102737-01
Phosphorus, total (as P)	100722PR1	07/22/10	4.86	1	5.7833	92.3 %							84-115	18	102741-01
Silver, total	100722PE1	07/22/10	0	0.1	0.091	91.0 %							80-107	20	102905-01
Silver, total	100722PE1	07/22/10	0										80-107	20	102905-02
Sulfide	100723SU1	07/23/10	0										76-121	22	102905-01
Suspended solids, total	100722SS1	07/22/10	0										73-122	20	102905-01
Tin, total	100722PE1	07/22/10	0	0.4	0.399	99.8 %							73-122	20	102905-02
Tin, total	100722PE1	07/22/10	0										76-125	13	102905-01
Toluene	072210MW1	07/22/10	0	25	26.16	104.6 %	26.29	105.2 %	0.5 %				71-120	14	102905-01
Trichloroethene	072210MW1	07/22/10	0	25	25.34	101.4 %	26.18	104.7 %	3.3 %				86-115	20	102905-01
Zinc, total	100722PE1	07/22/10	.02	0.5	0.52	100.0 %							86-115	20	102905-02
Zinc, total	100722PE1	07/22/10	0										86-115	20	102905-02

This "Batch QC" section of the QC Report contains data from samples analyzed in the same Extraction Batch (analytical run) as the samples that you submitted. Please refer to the previous QC Report section for QC information specific to your samples. This report may only be reproduced in full and not without written consent.

KAR Laboratories, Inc.

(269) 381-9666

QC Batch Report

Page 1 of 1



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wiseman
Address: 14496 Sheldon Rd.	Copy To: Indie Dembra
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: 12th ST.
Fax: 734-453-5201	Project Number: 05/2013
Email:	

Valid Matrix Codes
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for
Additional Codes

Matrix Code

Sample Identification:

1. WNW-056913-072110-DN-011
2. WNW-056913-072210-DN-012

PAGE OF

Laboratory: KAR
Laboratory Location:
Laboratory Contact: G. Irvin
Requested Due Date: TAT: 24 hr
OA/OC Requirements: See SSW

ID # № D 6126

SSOW Ref. Code:

Analysis and Method

Remarks/Lab 1B

Tank #484
Tank #485

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVER BY / AFFILIATION	DATE	TIME
CRA Truck	1	Jean Nelson	7/22/10	845	David Delaney Lori Young KAR		
AIRBILL NO.						7/22/10	0850
Sample Condition							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name

DAN NELSON
Sampler Signature: DAN NELSON

Date: 7/22/10

INSTRUCTIONS

1. Complete all client information at top of sheet: e-mail address (person to whom the electronic data deliverable will be sent and contact can be made if questions arise), billing information, PO#, project name and project number as it will appear on the report.
2. A separate COC must be filled out for each day of sample collection.
3. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.
4. Complete Sample Identification as it will appear on the laboratory report, including time of sampling, CRA specific matrix code (see below for more matrix codes), number of containers and preservative used.
5. Complete the analysis requested on the lines provided and mark which samples require the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.
6. Sign relinquished by and affiliation at bottom of page and confirm that transfer time and dates match.

Commonly used CRA specific matrix codes:

Liquid	Solid	Air	Other
WB Borehole Water	SE Sediment	GE Gaseous Effluent (Stack Gas)	SW Swab/Swipe
WG Groundwater	CC Concrete	GS Soil Gas	TA Animal Tissue
WM Stormwater	SL Sludge		TP Plant Tissue
WP Drinking Water	SLRY Slurry		
WQ Water Quality Matrix*	SO Soil		
WS Surface Water	ST Solid Waste		
WSW Sump Water			
WT Treated Effluent			
WW Waste Water			
LNAPL Light Non-Aqueous Phase Liquid			
DNAPL Dense Non-Aqueous Phase Liquid			

*Used for Trip Blanks and Equipment Blanks

ATTACHMENT B

ADDITIONAL COMPACTION TESTING RESULTS FOR JULY 2010 REPORTING PERIOD



INSPCSOL ENGINEERING, INC. 14496 Sheldon Road, Suite 200, Plymouth, MI 48170, Tel. : (734) 453-5123, Fax : (734) 453-5201
www.inspcsol.com

MEMO

TO : Greg Carli, P.E. **DATE :** August 9, 2010
FROM : Michael D. Stieler, P.E. **REFERENCE # :** 056393
SUBJECT : In-Place Density Test Results

Attached are the In-Place Density Test Results for the 12th Street Landfill Project (Project Number 050393). Also attached is the Subgrade Contour Plan Sheet to reference In-Place Density Test locations:

Test Nos. 1 through 12 dated May 24 & 27, 2010 and June 4, 2010.

Test Nos. 1 through 3 dated July 2, 2010.

Test Nos. 1 through 4 dated July 9, 2010.

Test Nos. 1 through 4 dated July 14, 2010.

Test Nos. 1 through 6 dated July 22, 2010.

Test Nos. 1 through 4 dated July 29, 2010.



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

PROJECT: 12TH ST LANDFILL

CLIENT:

DATE: 5-24-10

MOISTURE STANDARD: 663

DAILY MOISTURE STANDARD: 1660

DENSITY STANDARD: 2502

DAILY DENSITY STANDARD: 2437

GAUGE NO.: 31097

TEST NO.	TEST LOCATION	ELEVATION OR LIFT NO.	LAB		FIELD				REQUIRED COMPACTION %	NOTES
			SAMPLE ID	MAXIMUM DRY UNIT WEIGHT (PCF)	OPTIMUM WATER CONTENT %	IN-PLACE WET UNIT WEIGHT (PCF)	IN-PLACE WATER CONTENT %	IN-PLACE DRY UNIT WEIGHT (PCF)	COMPACTION %	
1	3-D	1	1	56.5	60.0	85.2	63.4	52.1	92.2	90
2	5/6 - CD	2	3	97.5	18.9	109.3	14.0	95.9	98.3	5-27-10
3	5/6 - C	3	3	97.5	18.9	104.6	15.8	90.3	92.6	
4	5/6 BC	4	3	97.5	18.9	102.0	14.9	88.8	91.0	
5	6-D	1	3	97.5	18.9	104.7	14.8	91.2	93.5	6-4-10
6	5.5-D	1	3	97.5	18.9	110.3	14.9	96.0	98.4	DS 2410 MS 455
7	5-D	1	3	97.5	18.9	112.0	15.8	96.7	99.2	
8	5-E	2	3	97.5	18.9	109.2	16.1	94.0	96.4	
9	5.5-E	2	3	97.5	18.9	112.0	17.8	95.0	97.5	
10	4-E	1	3	97.5	18.9	114.9	25.2	91.8	94.1	

NOTES:

PREPARED BY:	Thomas K. Johnson	CHECKED BY:
--------------	-------------------	-------------



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

DATE: 6-4-10

PROJECT: 6TH ST LANDFILL

MOISTURE STANDARD: 46.3

DAILY MOISTURE STANDARD: 455

CLIENT:

DENSITY STANDARD: 2502

DAILY DENSITY STANDARD: 2410

GAUGE NO.: 31097



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

DATE: 7-2-10

PROJECT: 125 STREET LAND FILL

MOISTURE STANDARD: 627

DAILY MOISTURE STANDARD 615

CLIENT:

DENSITY STANDARD: 2337

DAILY DENSITY STANDARD 2323

GAUGE NO.: 30968

TEST NO.	TEST LOCATION	ELEVATION OR LIFT NO.	LAB			FIELD				REQUIRED COMPACTION %	NOTES
			SAMPLE ID	MAXIMUM DRY UNIT WEIGHT (PCF)	OPTIMUM WATER CONTENT %	IN-PLACE WET UNIT WEIGHT (PCF)	IN-PLACE WATER CONTENT %	IN-PLACE DRY UNIT WEIGHT (PCF)	COMPACTATION %		
1	3.5 - D.5	725.0	2	48.4	55.0	80.3	29.1	62.2	128.5	90%	FLY ASH
2	2.75 - C.5	722.0	3	97.5	18.9	110.2	20.1	88.8	91.1	90%	MIX
3	2.5 - F.5	725.0	4	123.1	10.8	138.5	8.4	127.8	103.8	90%	MIX
											7-9-10
1	5.2 - D.2	731.0	3	97.5	18.9	116.1	20.3	96.5	99.0	90%	MIX - SAND & FLYASH
2	3.8 - E	721.5	3	97.5	18.9	116.9	20.3	97.2	99.7	90%	MIX - SAND & FLYASH
3	3.8 - E.5	721.0	3	97.5	18.9	119.7	25.6	95.4	97.8	90%	MIX - SAND & FLYASH
4	4.5 - C.2	726.0	3	97.5	18.9	120.6	29.1	93.4	95.8	90%	MIX - SAND & FLYASH
NOTES:											
PREPARED BY: MARK A. HERTLEIN											
CHECKED BY:											

DS
2310

MS
618



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

DATE: 7-14-10

PROJECT: 12th ST. LANDFILL

MOISTURE STANDARD: 627 DAILY MOISTURE STANDARD: 617

CLIENT: CRA

DENSITY STANDARD: 2337 DAILY DENSITY STANDARD: 2305

GAUGE NO.: 30968



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

DATE: 7-22-10

PROJECT: 12th STREET LANDFILL

MOISTURE STANDARD: 627

DAILY MOISTURE STANDARD: 616

CLIENT: CRA

DENSITY STANDARD: 2337

DAILY DENSITY STANDARD: 2326

GAUGE NO.: 30168

TEST NO.	TEST LOCATION	ELEVATION OR LIFT NO.	SAMPLE ID	LAB		FIELD				REQUIRED COMPACTION %	NOTES
				MAXIMUM DRY UNIT WEIGHT (PCF)	OPTIMUM WATER CONTENT %	IN-PLACE WET UNIT WEIGHT (PCF)	IN-PLACE WATER CONTENT %	IN-PLACE DRY UNIT WEIGHT (PCF)	COMPACTATION %		
1	4.2 - B.9	728.0	3	97.5	18.9	125.2	23.0	101.8	104.4	90.0	MIX - MORE SAND
2	3.5 - C.5	728.0	3	97.5	18.9	118.4	28.9	91.9	91.9	90.0	MIX
3	3.0 - B.2 ^{.5 RR.}	720.0	3	97.5	18.9	122.0	14.0	107.0 109.8	109.8	90.0	MIX - MORE SAND
3A	(25' N. OF TEST 3) 2.9 - B.0 ^{.5 RR.}	720	3	97.5	18.9	90.6	31.9	68.7	70.5*	90.0	INFO ONLY - NOT VALID MIX - MORE FLY ASH
4	3.3 - D.3	719.0	3	97.5	18.9	110.5	20.1	92.0	94.4	90.0	MIX
5	4.2 - D.5	731.0	4	123.1	10.8	140.6	9.3	128.7	104.5	90.0	SLIGHT GRAVEL MIX SAND - IN HAUL ROAD
6	5.5 - D.2	734.0	3	97.5	18.9	92.0	15.3	79.8	81.9*	90.0	VIRGIN GROUND - NO FILL PLACED - INFO ONLY

NOTES:

PREPARED BY: Mark A. Nuttall

CHECKED BY:



IN-PLACE DENSITY TEST

PROJECT NO.: 056393

PROJECT: 12TH STREET LANDFILL

CLIENT: CRA

DATE: 7-29-10

MOISTURE STANDARD: 62%

DAILY MOISTURE STANDARD: 621

DENSITY STANDARD: 233

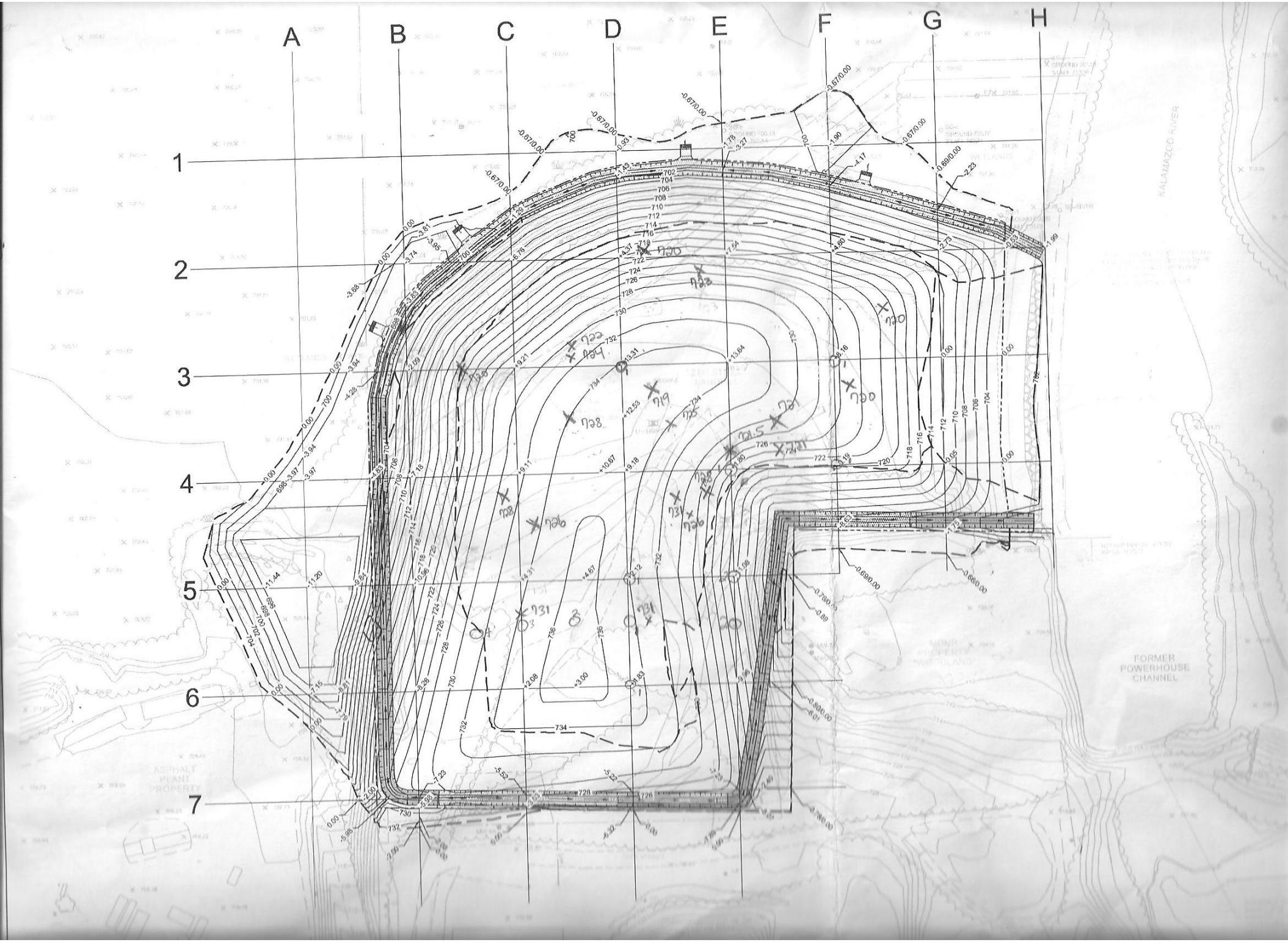
DAILY DENSITY STANDARD: 2320

GAUGE NO.: 30968

NOTES:

PREPARED BY: MARK A. HERTLEIN

CHECKED BY:



ATTACHMENT C

VERIFICATION SAMPLING PLAN RESULTS FOR JULY 2010 REPORTING PERIOD

**FIELD SAMPLE KEY
THROUGH TO JULY 30, 2010**

**OPERABLE UNIT NO. 4 - 12TH STREET LANDFILL
ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER SUPERFUND SITE
PLAINWELL, MICHIGAN**

Sample ID	Date Collected	Sample Key	Comments
SO-056393-062910-RP-VSRDNRE-001	6/29/2010	VSR Sample 1 - MDNRE Property	
SO-056393-062910-RP-VSRDNRE-002	6/29/2010	VSR Sample 2 - MDNRE Property	
SO-056393-062910-RP-VSRDNRE-003	6/29/2010	VSR Sample 3 - MDNRE Property	
SO-056393-062910-RP-VSRDNRE-004	6/29/2010	VSR Sample 4 - MDNRE Property	
SO-056393-062910-RP-QC-1	6/29/2010	NA	Sample used for MS/MSD analysis.
SO-056393-062910-RP-VSRDNRE-005	6/29/2010	VSR Sample 5 - MDNRE Property	
SO-056393-062910-RP-VSRDNRE-006	6/29/2010	VSR Sample 6 - MDNRE Property	
SO-056393-063010-RP-VSRDNRE-007	6/30/2010	VSR Sample 7 - MDNRE Property	
SO-056393-063010-RP-VSRDNRE-008	6/30/2010	VSR Sample 8 - MDNRE Property	
SO-056393-063010-RP-VSRDNRE-009	6/30/2010	VSR Sample 9 - MDNRE Property	
SO-056393-063010-RP-VSRDNRE-010	6/30/2010	Duplicate	Duplicate for VSR Sample 8 - MDNRE Property
SO-056393-071010-RP-VSRAP-001	7/10/2010	VSR Sample 1 - Asphalt Property	
SO-056393-071010-RP-VSRAP-002	7/10/2010	VSR Sample 2 - Asphalt Property	
SO-056393-071010-RP-VSRAP-003	7/10/2010	VSR Sample 3 - Asphalt Property	
SO-056393-071010-RP-VSRAP-004	7/10/2010	VSR Sample 5 - Asphalt Property	
SO-056393-071010-RP-VSRAP-005	7/10/2010	VSR Sample 8 - Asphalt Property	
SO-056393-071310-RP-VSRAP-006	7/13/2010	VSR Sample 9 - Asphalt Property	
SO-056393-071310-RP-VSRAP-007	7/13/2010	VSR Sample 12 - Asphalt Property	
SO-056393-071310-RP-VSRAP-008	7/13/2010	Duplicate	Duplicate for VSR Sample 12 - Asphalt Property
SO-056393-071410-RP-VSRAP-009	7/14/2010	VSR Sample 15 - Asphalt Property	
TB-056393-071610-CB-001	7/16/2010	Trip Blank	Trip Blank
TB-056393-071610-CB-002	7/16/2010	Trip Blank	Trip Blank
SO-056393-071610-CB-VSRAP-010	7/16/2010	VSR Sample 4 - Asphalt Property	

**FIELD SAMPLE KEY
THROUGH TO JULY 30, 2010**

**OPERABLE UNIT NO. 4 - 12TH STREET LANDFILL
ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER SUPERFUND SITE
PLAINWELL, MICHIGAN**

Sample ID	Date Collected	Sample Key	Comments
SO-056393-071910-CB-VSRAP-011	7/19/2010	VSR Sample 18 - Asphalt Property	
TB-056393-071910-RP-003	7/19/2010	Trip Blank	Trip Blank
SO-056393-072010-CB-VSRAP-012	7/20/2010	VSR Sample 19 - Asphalt Property	
SO-056393-072010-CB-VSRAP-013	7/20/2010	VSR Sample 16 - Asphalt Property	
SO-056393-072010-CB-VSRAP-014	7/20/2010	VSR Sample 21 - Asphalt Property	Additional sample collected near well house on asphalt property
SO-056393-072010-CB-VSRAP-015	7/20/2010	VSR Sample 20 - Asphalt Property	
SO-056393-072010-CB-VSRAP-016	7/20/2010	VSR Sample 17 - Asphalt Property	
SO-056393-072010-CB-VSRAP-017	7/20/2010	VSR Sample 22 - Asphalt Property	Additional sample collected at southwest sidewall of asphalt property
SO-056393-072810-CB-VSRAP-018	7/28/2010	VSR Sample 14 - Asphalt Property	
SO-056393-072810-CB-VSRAP-019	7/28/2010	VSR Sample 13 - Asphalt Property	
SO-056393-080610-CB-VSRAP-020	8/6/2010	VSR Sample 10 - Asphalt Property	
SO-056393-080610-CB-VSRAP-021	8/6/2010	Duplicate	Duplicate for VSR Sample 10 - Asphalt Property
SO-056393-080610-CB-VSRAP-022	8/6/2010	VSR Sample 11 - Asphalt Property	
SO-056393-060610-RP-001	6/6/2010	NA	Sample of gray balls of material w/ peat observed in peat material near northwest wetland area
SO-056393-071910-RP-002	7/19/2010	NA	Sample of blueish/grayish material observed underneath asphalt at southwest corner of asphalt property

Notes:

- (1) - Locations per Verification Sampling Plant - CRA-Memo-6 dated 6/22/10.
- VSR - Verification Soil Remediation Sample
- MS/MSD - Matrix Spike / Matrix Spike Duplicate

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-001	Units:	ug/Kg
Lab Code:	K1006734-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	14	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	ND U	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	16 P	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	6.9	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	113	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-002	Units:	ug/Kg
Lab Code:	K1006734-002	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	15	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	46	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	ND U	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	7.1	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	122	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-003	Units: ug/Kg
Lab Code:	K1006734-003	Basis: Dry
Extraction Method:	EPA 3550B	Level: Low
Analysis Method:	8082	

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	16	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	110	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	110	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	7.8	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	106	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-004	Units:	ug/Kg
Lab Code:	K1006734-004	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	14	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	ND U	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	14	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	7.0	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	104	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-005	Units:	ug/Kg
Lab Code:	K1006734-005	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	15	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	110	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	91	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	7.5	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	97	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: 06/29/2010
Date Received: 06/30/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-006	Units:	ug/Kg
Lab Code:	K1006734-006	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	13	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	10 P	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	6.8	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	6.4	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	118	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1006395-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1221	ND U	13	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1232	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1242	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1248	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1254	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	
Aroclor 1260	ND U	6.5	1.3	1	06/30/10	07/02/10	KWG1006395	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	117	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-062910-RP-VSRDN	K1006734-001	113
SO-056393-062910-RP-VSRDN	K1006734-002	122
SO-056393-062910-RP-VSRDN	K1006734-003	106
SO-056393-062910-RP-VSRDN	K1006734-004	104
SO-056393-062910-RP-VSRDN	K1006734-005	97
SO-056393-062910-RP-VSRDN	K1006734-006	118
Method Blank	KWG1006395-4	117
SO-056393-062910-RP-VSRDN	KWG1006395-1	105
SO-056393-062910-RP-VSRDN	KWG1006395-2	109
Lab Control Sample	KWG1006395-3	103

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Extracted: 06/30/2010
Date Analyzed: 07/02/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-062910-RP-VSRDNRE-004	Units:	ug/Kg
Lab Code:	K1006734-004	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1006395

SO-056393-062910-RP-VS	RDNRE-004MS	KWG1006395-1	SO-056393-062910-RP-VS	RDNRE-004DMS	KWG1006395-2
------------------------	-------------	--------------	------------------------	--------------	--------------

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	152	138	110	152	140	109	27-174	0	40
Aroclor 1260	ND	168	138	122	173	140	123	20-185	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006734
Date Extracted: 06/30/2010
Date Analyzed: 07/02/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1006395

Lab Control Sample

KWG1006395-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	195	200	98	48-121
Aroclor 1260	208	200	104	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Collected: 06/30/2010
Date Received: 07/01/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-063010-RP-VSRDNRE-007	Units:	ug/Kg
Lab Code:	K1006774-001	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1221	ND U	11	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1232	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1242	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1248	8.1	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1254	5.5	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1260	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Collected: 06/30/2010
Date Received: 07/01/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-063010-RP-VSRDNRE-008	Units:	ug/Kg
Lab Code:	K1006774-002	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1221	ND U	11	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1232	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1242	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1248	5.1 J	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1254	4.7 J	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1260	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Collected: 06/30/2010
Date Received: 07/01/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-063010-RP-VSRDNRE-009	Units:	ug/Kg
Lab Code:	K1006774-003	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1221	ND U	12	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1232	ND U	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1242	ND U	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1248	18	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1254	15	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1260	ND U	5.7	1.3	1	07/02/10	07/02/10	KWG1006459	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	117	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Collected: 06/30/2010
Date Received: 07/01/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-063010-RP-VSRDNRE-010	Units:	ug/Kg
Lab Code:	K1006774-004	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1221	ND U	11	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1232	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1242	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1248	8.6	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1254	6.2	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1260	ND U	5.4	1.3	1	07/02/10	07/02/10	KWG1006459	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	97	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1006459-4	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1221	ND U	10	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1232	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1242	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1248	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1254	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	
Aroclor 1260	ND U	5.0	1.3	1	07/02/10	07/02/10	KWG1006459	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	35-133	07/02/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550C
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-063010-RP-VSRDN	K1006774-001	101
SO-056393-063010-RP-VSRDN	K1006774-002	101
SO-056393-063010-RP-VSRDN	K1006774-003	117
SO-056393-063010-RP-VSRDN	K1006774-004	97
Method Blank	KWG1006459-4	101
SO-056393-063010-RP-VSRDN	KWG1006459-1	86
SO-056393-063010-RP-VSRDN	KWG1006459-2	101
Lab Control Sample	KWG1006459-3	100

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Extracted: 07/02/2010
Date Analyzed: 07/02/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-063010-RP-VSRDNRE-010	Units:	ug/Kg
Lab Code:	K1006774-004	Basis:	Dry
Extraction Method:	EPA 3550C	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1006459

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	86.8	107	81	94.7	107	89	27-174	9	40
Aroclor 1260	ND	94.9	107	89	106	107	99	20-185	11	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-07-004
Sample Matrix: Soil

Service Request: K1006774
Date Extracted: 07/02/2010
Date Analyzed: 07/02/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550C
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1006459

Lab Control Sample

KWG1006459-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	175	200	87	48-121
Aroclor 1260	206	200	103	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: 12th Street Landfill
Fax: 734-453-5201	Project Number: 056393-07-004
Email: paul.wiseman@craworld.com	

PAGE **1** OF **1**

ID # **Nº D 3859**

SSOW Ref. Code:
056393 - 07

Laboratory: Columbia Analytical
Laboratory Location: Kelso, WA
Laboratory Contact:
Requested Due Date: TAT: 24 hr
QA/QC Requirements: as per SSOW

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unreserved	HCl	H ₂ SO ₄	HNO ₃	NaOH	Other: methanol	Preservative						Remarks/Lab ID
											PCBs	VOCs					
1. SO-056393-071010-CB-VSRAP-001	SO	7/10/10	1400	3	2						1	XX					
2. SO-056393-071010-CB-VSRAP-002	SO	7/10/10	1515	3	2						1	XX					
3. SO-056393-071210-RP-VSRAP-003	SO	7/12/10	1325	3	2						1	XX					
4. SO-056393-071210-RP-VSRAP-005	SO	7/12/10	1425	3	2						1	XX					
5. SO-056393-071210-RP-VSRAP-008	SO	7/12/10	1650	3	2						1	XX					
6.																	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	
TOTAL NUMBER OF CONTAINERS											15	15					

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FedEx	1	C.Bondy / CRA	7/10/10	1600	R.Pionk / CRA	7/10/10	0800
AIRBILL NO.		R.Pionk / CRA	7/12/10	17:15	J. Jones / CAS	7/13/10	0850

Sample Condition

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

Sampler Name: **C.Bondy / R.Pionk**
Sampler Signature: **Bondy**
Date: **7/10/10**



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To:
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name:
Fax: 734-453-5201	Project Number:
Email: cra@conestoga.com	

PAGE OF

ID # N° D

Laboratory:	
Laboratory location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

SSOW Ref. Code:

73310-07

Analysis and Method

Sample Identification:

	Matrix Code
1.	
2.	
3.	
4.	
5.	5
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Matrix Code

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELIQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
MAIL			11/10/03	11:00	CONESTOGA ROVERS & ASSOCIATES	11/10/03	11:00
AIR MAIL NO			11/10/03	11:00			

Sample Condition:

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples intact	Y / N

Additional Comments:

Sampler Name:

Sampler Signature:

Date:

Distribution:

WHITE - Fully Executed Copy

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENKOD - Sampler Copy

REV. 5/2000

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC _____

Client / Project: CRA Service Request K10 _____

Received: 7/13/10 Opened: 7/13/10 By: John

1. Samples were received via? Mail FedEx UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? Tape - all around
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
44.4	14.4	Z69		8714 7062 2702		

7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:
50-056393-0710-CB-VSRAP-001	50-056393-071010-CB-VSRAP-002	Date, time, lid

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Temperature Blank was underneath all packing material, at bottom and side of cooler - away from ice. Packing material was abundant - bags, bubble wrap.

RUSH

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162

Total Solids

Prep Method: NONE Units: PERCENT
Analysis Method: 160.3M Basis: Wet

Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
SO-056393-071010-CB-VSRAP-001	K1007162-001	07/10/2010	07/13/2010	07/13/2010	44.6	
SO-056393-071010-CB-VSRAP-002	K1007162-002	07/10/2010	07/13/2010	07/13/2010	32.7	
SO-056393-071210-RP-VSRAP-003	K1007162-003	07/12/2010	07/13/2010	07/13/2010	21.3	
SO-056393-071210-RP-VSRAP-004	K1007162-004	07/12/2010	07/13/2010	07/13/2010	21.6	
SO-056393-071210-RP-VSRAP-005	K1007162-005	07/12/2010	07/13/2010	07/13/2010	21.6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
 Project: 12th St. Landfill/056393-07-004
 Sample Matrix: Soil

Service Request: K1007162
 Date Collected: 07/10/2010
 Date Received: 07/13/2010
 Date Analyzed: 07/13/2010

Duplicate Sample Summary
Total Solids

Prep Method: NONE Units: PERCENT
 Analysis Method: 160.3M Basis: Wet

Test Notes:

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
SO-056393-071010-CB-VSRAP-00	K1007162-001	44.6	46.8	45.7	5	

Organic Analysis:
Volatile Organic Compounds

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004

Service Request: K1007162

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
SO-056393-071010-CB-VSRAP-	K1007162-001	07/10/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	K1007162-002	07/10/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-003	07/12/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-004	07/12/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-005	07/12/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	KWG1006833-1	07/10/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	KWG1006833-2	07/10/2010	07/13/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kloosner

Name: Kloosner

Date: 7/14/10

Title: Scientist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071010-CB-VSRAP-001	Units:	mg/Kg
Lab Code:	K1007162-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.16	0.041	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.16	0.017	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.16	0.024	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.16	0.029	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.16	0.051	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.16	0.038	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.16	0.024	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	6.3	1.1	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	ND U	0.16	0.032	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.11 J	0.63	0.054	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.16	0.029	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.16	0.025	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.16	0.019	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.16	0.022	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	6.3	0.60	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.16	0.051	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.16	0.021	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.16	0.024	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.16	0.031	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.16	0.029	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.16	0.018	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.16	0.026	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.16	0.032	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.16	0.030	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.16	0.048	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.16	0.029	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.16	0.057	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	6.3	0.82	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.16	0.017	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.16	0.022	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.16	0.045	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.16	0.021	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	6.3	0.86	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-001 **Units:** mg/Kg
Lab Code: K1007162-001 **Basis:** Dry

Extraction Method: EPA 5035A/5030B **Level:** Med
Analysis Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND U	0.16	0.045	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND U	0.16	0.045	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND U	0.63	0.032	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND U	0.16	0.035	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND U	0.16	0.016	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND U	0.16	0.035	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND U	0.16	0.029	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND U	0.16	0.024	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND U	0.16	0.038	1	07/13/10	07/13/10	KWG1006833	
Bromoform	ND U	0.16	0.051	1	07/13/10	07/13/10	KWG1006833	
Isopropylbenzene	ND U	0.63	0.029	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND U	0.16	0.051	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND U	0.63	0.038	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND U	0.63	0.17	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND U	0.16	0.063	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND U	0.63	0.032	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND U	0.63	0.029	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND U	0.63	0.041	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND U	0.63	0.017	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND U	0.63	0.022	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND U	0.63	0.016	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND U	0.63	0.017	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND U	0.16	0.032	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND U	0.16	0.038	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND U	0.63	0.14	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND U	0.16	0.038	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND U	0.63	0.063	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND U	0.63	0.031	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	ND U	0.63	0.035	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND U	0.63	0.028	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	ND U	0.63	0.035	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-001
Lab Code: K1007162-001

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	68-119	07/13/10	Acceptable
Toluene-d8	116	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	98	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-002
Lab Code: K1007162-002
Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.31	0.079	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.31	0.032	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.31	0.046	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.31	0.055	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.31	0.097	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.31	0.073	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.31	0.045	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	13	2.0	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	0.072 J	0.31	0.061	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.22 J	1.3	0.11	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.31	0.055	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.31	0.047	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.31	0.037	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.31	0.041	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	13	1.2	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.31	0.097	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.31	0.039	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.31	0.046	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.31	0.058	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.31	0.054	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.31	0.033	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.31	0.049	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.31	0.061	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.31	0.058	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.31	0.091	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.31	0.055	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.31	0.11	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	13	1.6	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.31	0.032	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.31	0.041	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.31	0.085	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.31	0.040	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	13	1.7	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-002 **Units:** mg/Kg
Lab Code: K1007162-002 **Basis:** Dry
Extraction Method: EPA 5035A/5030B **Level:** Med
Analysis Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND U	0.31	0.085	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND U	0.31	0.085	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND U	1.3	0.061	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND U	0.31	0.067	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND U	0.31	0.031	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND U	0.31	0.067	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND U	0.31	0.055	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND U	0.31	0.045	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND U	0.31	0.073	1	07/13/10	07/13/10	KWG1006833	
Bromoform	ND U	0.31	0.097	1	07/13/10	07/13/10	KWG1006833	
Isopropylbenzene	ND U	1.3	0.055	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND U	0.31	0.097	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND U	1.3	0.073	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND U	1.3	0.32	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND U	0.31	0.13	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND U	1.3	0.061	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND U	1.3	0.054	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND U	1.3	0.079	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND U	1.3	0.032	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND U	1.3	0.042	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND U	1.3	0.029	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND U	1.3	0.031	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND U	0.31	0.061	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND U	0.31	0.073	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND U	1.3	0.26	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND U	0.31	0.073	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND U	1.3	0.13	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND U	1.3	0.058	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	ND U	1.3	0.067	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND U	1.3	0.053	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	ND U	1.3	0.067	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-002 **Units:** mg/Kg
Lab Code: K1007162-002 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	68-119	07/13/10	Acceptable
Toluene-d8	116	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	99	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-003 **Units:** mg/Kg
Lab Code: K1007162-003 **Basis:** Dry

Extraction Method: EPA 5035A/5030B **Level:** Med
Analysis Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.54	0.14	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.54	0.057	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.54	0.080	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.54	0.096	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.54	0.18	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.54	0.13	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.54	0.079	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	22	3.6	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	ND U	0.54	0.11	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.38 J	2.2	0.19	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.54	0.098	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.54	0.083	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.54	0.064	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.54	0.072	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	22	2.1	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.54	0.18	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.54	0.069	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.54	0.080	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.54	0.11	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.54	0.095	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.54	0.058	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.54	0.086	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.54	0.11	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.54	0.11	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.54	0.16	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.54	0.098	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.54	0.20	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	22	2.8	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.54	0.056	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.54	0.073	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.54	0.15	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.54	0.071	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	22	2.9	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-003 **Units:** mg/Kg
Lab Code: K1007162-003 **Basis:** Dry

Extraction Method: EPA 5035A/5030B **Level:** Med
Analysis Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND U	0.54	0.15	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND U	0.54	0.15	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND U	2.2	0.11	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND U	0.54	0.12	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND U	0.54	0.054	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND U	0.54	0.12	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND U	0.54	0.098	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND U	0.54	0.079	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND U	0.54	0.13	1	07/13/10	07/13/10	KWG1006833	
Bromoform	ND U	0.54	0.18	1	07/13/10	07/13/10	KWG1006833	
Isopropylbenzene	ND U	2.2	0.098	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND U	0.54	0.18	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND U	2.2	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND U	2.2	0.57	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND U	0.54	0.22	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND U	2.2	0.11	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND U	2.2	0.095	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND U	2.2	0.14	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND U	2.2	0.057	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND U	2.2	0.074	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND U	2.2	0.052	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND U	2.2	0.055	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND U	0.54	0.11	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND U	0.54	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND U	2.2	0.45	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND U	0.54	0.13	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND U	2.2	0.22	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND U	2.2	0.11	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	ND U	2.2	0.12	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND U	2.2	0.094	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	ND U	2.2	0.12	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-003
Lab Code: K1007162-003

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	68-119	07/13/10	Acceptable
Toluene-d8	117	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	99	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071210-RP-VSRAP-004	Units:	mg/Kg
Lab Code:	K1007162-004	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.51	0.14	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.51	0.054	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.51	0.076	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.51	0.091	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.51	0.17	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.51	0.13	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.51	0.075	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	21	3.4	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	ND U	0.51	0.11	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.34 J	2.1	0.18	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.51	0.092	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.51	0.078	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.51	0.061	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.51	0.068	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	21	2.0	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.51	0.17	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.51	0.065	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.51	0.076	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.51	0.097	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.51	0.090	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.51	0.055	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.51	0.081	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.51	0.11	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.51	0.096	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.51	0.16	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.51	0.092	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.51	0.19	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	21	2.7	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.51	0.053	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.51	0.069	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.51	0.15	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.51	0.067	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	21	2.8	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071210-RP-VSRAP-004	Units:	mg/Kg
Lab Code:	K1007162-004	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND U	0.51	0.15	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND U	0.51	0.15	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND U	2.1	0.11	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND U	0.51	0.12	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND U	0.51	0.051	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND U	0.51	0.12	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND U	0.51	0.092	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND U	0.51	0.075	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND U	0.51	0.13	1	07/13/10	07/13/10	KWG1006833	
Bromoform	ND U	0.51	0.17	1	07/13/10	07/13/10	KWG1006833	
Isopropylbenzene	ND U	2.1	0.092	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND U	0.51	0.17	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND U	2.1	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND U	2.1	0.54	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND U	0.51	0.21	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND U	2.1	0.11	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND U	2.1	0.090	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND U	2.1	0.14	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND U	2.1	0.054	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND U	2.1	0.070	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND U	2.1	0.049	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND U	2.1	0.052	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND U	0.51	0.11	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND U	0.51	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND U	2.1	0.43	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND U	0.51	0.13	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND U	2.1	0.21	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND U	2.1	0.097	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	ND U	2.1	0.12	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND U	2.1	0.089	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	ND U	2.1	0.12	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-004
Lab Code: K1007162-004

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	68-119	07/13/10	Acceptable
Toluene-d8	115	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	98	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-005
Lab Code: K1007162-005
Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.52	0.14	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.52	0.055	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.52	0.077	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.52	0.093	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.52	0.17	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.52	0.13	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.52	0.076	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	21	3.4	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	ND U	0.52	0.11	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.36 J	2.1	0.18	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.52	0.094	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.52	0.079	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.52	0.062	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.52	0.069	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	21	2.0	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.52	0.17	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.52	0.066	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.52	0.077	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.52	0.099	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.52	0.092	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.52	0.056	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.52	0.082	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.52	0.11	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.52	0.098	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.52	0.16	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.52	0.094	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.52	0.19	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	21	2.7	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.52	0.054	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.52	0.070	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.52	0.15	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.52	0.068	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	21	2.8	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-005 **Units:** mg/Kg
Lab Code: K1007162-005 **Basis:** Dry
Extraction Method: EPA 5035A/5030B **Level:** Med
Analysis Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND U	0.52	0.15	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND U	0.52	0.15	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND U	2.1	0.11	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND U	0.52	0.12	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND U	0.52	0.052	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND U	0.52	0.12	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND U	0.52	0.094	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND U	0.52	0.076	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND U	0.52	0.13	1	07/13/10	07/13/10	KWG1006833	
Bromobutane	ND U	0.52	0.17	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND U	2.1	0.094	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND U	0.52	0.17	1	07/13/10	07/13/10	KWG1006833	
Bromobutene	ND U	2.1	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND U	2.1	0.55	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND U	0.52	0.21	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND U	2.1	0.11	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND U	2.1	0.092	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND U	2.1	0.14	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND U	2.1	0.055	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND U	2.1	0.071	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND U	2.1	0.050	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND U	2.1	0.053	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND U	0.52	0.11	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND U	0.52	0.13	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND U	2.1	0.43	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND U	0.52	0.13	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND U	2.1	0.21	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND U	2.1	0.099	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	ND U	2.1	0.12	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND U	2.1	0.091	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	ND U	2.1	0.12	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Volatile Organic Compounds

Sample Name: SO-056393-071210-RP-VSRAP-005
Lab Code: K1007162-005

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	68-119	07/13/10	Acceptable
Toluene-d8	115	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	99	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1006833-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.050	0.013	1	07/13/10	07/13/10	KWG1006833	
Chloromethane	ND U	0.050	0.0053	1	07/13/10	07/13/10	KWG1006833	
Vinyl Chloride	ND U	0.050	0.0075	1	07/13/10	07/13/10	KWG1006833	
Bromomethane	ND U	0.050	0.0090	1	07/13/10	07/13/10	KWG1006833	
Chloroethane	ND U	0.050	0.016	1	07/13/10	07/13/10	KWG1006833	
Trichlorofluoromethane	ND U	0.050	0.012	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethene	ND U	0.050	0.0074	1	07/13/10	07/13/10	KWG1006833	
Acetone	ND U	2.0	0.33	1	07/13/10	07/13/10	KWG1006833	
Carbon Disulfide	ND U	0.050	0.010	1	07/13/10	07/13/10	KWG1006833	
Methylene Chloride	0.017 J	0.20	0.017	1	07/13/10	07/13/10	KWG1006833	
trans-1,2-Dichloroethene	ND U	0.050	0.0091	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloroethane	ND U	0.050	0.0077	1	07/13/10	07/13/10	KWG1006833	
2,2-Dichloropropane	ND U	0.050	0.0060	1	07/13/10	07/13/10	KWG1006833	
cis-1,2-Dichloroethene	ND U	0.050	0.0067	1	07/13/10	07/13/10	KWG1006833	
2-Butanone (MEK)	ND U	2.0	0.19	1	07/13/10	07/13/10	KWG1006833	*
Bromochloromethane	ND U	0.050	0.016	1	07/13/10	07/13/10	KWG1006833	
Chloroform	ND U	0.050	0.0064	1	07/13/10	07/13/10	KWG1006833	
1,1,1-Trichloroethane (TCA)	ND U	0.050	0.0075	1	07/13/10	07/13/10	KWG1006833	
Carbon Tetrachloride	ND U	0.050	0.0096	1	07/13/10	07/13/10	KWG1006833	
1,1-Dichloropropene	ND U	0.050	0.0089	1	07/13/10	07/13/10	KWG1006833	
Benzene	ND U	0.050	0.0054	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloroethane (EDC)	ND U	0.050	0.0080	1	07/13/10	07/13/10	KWG1006833	
Trichloroethene (TCE)	ND U	0.050	0.010	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichloropropane	ND U	0.050	0.0095	1	07/13/10	07/13/10	KWG1006833	
Dibromomethane	ND U	0.050	0.015	1	07/13/10	07/13/10	KWG1006833	
Bromodichloromethane	ND U	0.050	0.0091	1	07/13/10	07/13/10	KWG1006833	
cis-1,3-Dichloropropene	ND U	0.050	0.018	1	07/13/10	07/13/10	KWG1006833	
4-Methyl-2-pentanone (MIBK)	ND U	2.0	0.26	1	07/13/10	07/13/10	KWG1006833	
Toluene	ND U	0.050	0.0052	1	07/13/10	07/13/10	KWG1006833	
trans-1,3-Dichloropropene	ND U	0.050	0.0068	1	07/13/10	07/13/10	KWG1006833	
1,1,2-Trichloroethane	ND U	0.050	0.014	1	07/13/10	07/13/10	KWG1006833	
Tetrachloroethene (PCE)	ND U	0.050	0.0066	1	07/13/10	07/13/10	KWG1006833	
2-Hexanone	ND U	2.0	0.27	1	07/13/10	07/13/10	KWG1006833	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1006833-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/13/10	07/13/10	KWG1006833	
Dibromochloromethane	ND	U	0.050	0.014	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/13/10	07/13/10	KWG1006833	
Chlorobenzene	ND	U	0.050	0.011	1	07/13/10	07/13/10	KWG1006833	
Ethylbenzene	ND	U	0.050	0.0050	1	07/13/10	07/13/10	KWG1006833	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/13/10	07/13/10	KWG1006833	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/13/10	07/13/10	KWG1006833	
o-Xylene	ND	U	0.050	0.0074	1	07/13/10	07/13/10	KWG1006833	
Styrene	ND	U	0.050	0.012	1	07/13/10	07/13/10	KWG1006833	
Bromoform	ND	U	0.050	0.016	1	07/13/10	07/13/10	KWG1006833	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/13/10	07/13/10	KWG1006833	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/13/10	07/13/10	KWG1006833	
Bromobenzene	ND	U	0.20	0.012	1	07/13/10	07/13/10	KWG1006833	
n-Propylbenzene	ND	U	0.20	0.053	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/13/10	07/13/10	KWG1006833	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/13/10	07/13/10	KWG1006833	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/13/10	07/13/10	KWG1006833	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/13/10	07/13/10	KWG1006833	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/13/10	07/13/10	KWG1006833	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/13/10	07/13/10	KWG1006833	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/13/10	07/13/10	KWG1006833	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/13/10	07/13/10	KWG1006833	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/13/10	07/13/10	KWG1006833	
n-Butylbenzene	ND	U	0.20	0.042	1	07/13/10	07/13/10	KWG1006833	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/13/10	07/13/10	KWG1006833	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/13/10	07/13/10	KWG1006833	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/13/10	07/13/10	KWG1006833	
Hexachlorobutadiene	0.019	J	0.20	0.011	1	07/13/10	07/13/10	KWG1006833	
Naphthalene	ND	U	0.20	0.0088	1	07/13/10	07/13/10	KWG1006833	
1,2,3-Trichlorobenzene	0.018	J	0.20	0.011	1	07/13/10	07/13/10	KWG1006833	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG1006833-4 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	68-119	07/13/10	Acceptable
Toluene-d8	115	81-124	07/13/10	Acceptable
4-Bromofluorobenzene	99	64-132	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162**Surrogate Recovery Summary
Volatile Organic Compounds****Extraction Method:** EPA 5035A/5030B**Units:** PERCENT**Analysis Method:** 8260B**Level:** Med

Sample Name	Lab Code	Sur1	Sur2	Sur3
SO-056393-071010-CB-VSRAP-	K1007162-001	104	116	98
SO-056393-071010-CB-VSRAP-	K1007162-002	103	116	99
SO-056393-071210-RP-VSRAP-	K1007162-003	103	117	99
SO-056393-071210-RP-VSRAP-	K1007162-004	102	115	98
Lab Control Sample	KWG1006833-3	103	115	104
SO-056393-071210-RP-VSRAP-	K1007162-005	103	115	99
Method Blank	KWG1006833-4	105	115	99
SO-056393-071010-CB-VSRAP-	KWG1006833-1	102	115	102
SO-056393-071010-CB-VSRAP-	KWG1006833-2	101	114	104

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	68-119
Sur2 = Toluene-d8	81-124
Sur3 = 4-Bromofluorobenzene	64-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004

Service Request: K1007162
Date Analyzed: 07/13/2010
Time Analyzed: 09:46

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: J:\MS04\DATA\071310ML\0713F003.D
Instrument ID: MS04
Analysis Method: 8260B

Lab Code: KWG1006832-2
Analysis Lot: KWG1006832

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>
Results ==>	1,205,163	12.97	813,691	17.27	398,356	19.93
Upper Limit ==>	2,410,326	13.47	1,627,382	17.77	796,712	20.43
Lower Limit ==>	602,582	12.47	406,846	16.77	199,178	19.43
ICAL Result ==>	1,332,253	12.98	835,704	17.28	390,641	19.95

Associated Analyses

Lab Control Sample	KWG1006833-3	1,215,322	12.97	811,120	17.27	391,767	19.93
SO-056393-071010-CB-VSRAP-0	KWG1006833-1	1,214,694	12.96	821,818	17.28	398,803	19.93
SO-056393-071010-CB-VSRAP-0	KWG1006833-2	1,271,730	12.96	848,627	17.28	414,142	19.93
Method Blank	KWG1006833-4	1,169,411	12.96	783,685	17.27	354,278	19.93
SO-056393-071010-CB-VSRAP-0	K1007162-001	1,172,997	12.96	803,807	17.27	360,628	19.93
SO-056393-071010-CB-VSRAP-0	K1007162-002	1,139,706	12.96	775,953	17.27	361,088	19.93
SO-056393-071210-RP-VSRAP-00	K1007162-003	1,135,836	12.96	777,660	17.27	364,444	19.93
SO-056393-071210-RP-VSRAP-00	K1007162-004	1,189,865	12.96	795,033	17.27	362,287	19.93
SO-056393-071210-RP-VSRAP-00	K1007162-005	1,173,406	12.96	784,646	17.27	365,964	19.93

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: SO-056393-071010-CB-VSRAP-001
Lab Code: K1007162-001

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Level: Med
Extraction Lot: KWG1006833

Analyte Name	Sample Result	SO-056393-071010-CB-VS			SO-056393-071010-CB-VS			%Rec Limits	RPD	RPD Limit			
		RAP-001MS			RAP-001DMS								
		KWG1006833-1			KWG1006833-2								
		Result	Expected	%Rec	Result	Expected	%Rec						
Vinyl Chloride	ND	2.40	3.15	76	2.26	3.15	72	44-140	6	40			
1,1-Dichloroethene	ND	3.10	3.15	99	2.99	3.15	95	61-132	4	40			
Chloroform	ND	2.94	3.15	93	2.84	3.15	90	62-113	3	40			
Carbon Tetrachloride	ND	2.81	3.15	89	2.65	3.15	84	56-124	6	40			
Benzene	ND	2.81	3.15	89	2.69	3.15	86	70-120	4	40			
Trichloroethene (TCE)	ND	2.99	3.15	95	2.87	3.15	91	62-119	4	40			
Bromodichloromethane	ND	2.87	3.15	91	2.79	3.15	89	75-118	3	40			
Toluene	ND	3.07	3.15	97	2.93	3.15	93	67-123	5	40			
1,1,2-Trichloroethane	ND	3.23	3.15	103	3.17	3.15	101	74-113	2	40			
2-Hexanone	ND	16.6	15.7	105	16.5	15.7	105	58-118	0	40			
Chlorobenzene	ND	2.96	3.15	94	2.90	3.15	92	70-115	2	40			
Ethylbenzene	ND	2.93	3.15	93	2.84	3.15	90	68-121	3	40			
1,2,3-Trichloropropane	ND	3.18	3.15	101	3.16	3.15	100	29-169	1	40			
2-Chlorotoluene	ND	2.85	3.15	90	2.75	3.15	88	61-134	3	40			
1,2-Dichlorobenzene	ND	3.03	3.15	96	2.97	3.15	94	75-109	2	40			
Naphthalene	ND	3.58	3.15	114	3.66	3.15	116	44-163	2	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med
Extraction Lot: KWG1006833

Lab Control Sample
KWG1006833-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	0.665	1.00	67	32-164
Chloromethane	0.725	1.00	73	44-136
Vinyl Chloride	0.775	1.00	78	45-153
Bromomethane	0.791	1.00	79	29-171
Chloroethane	0.824	1.00	82	53-134
Trichlorofluoromethane	0.698	1.00	70	55-140
1,1-Dichloroethene	0.971	1.00	97	67-141
Acetone	5.44	5.00	109	38-136
Carbon Disulfide	1.97	2.00	98	69-129
Methylene Chloride	0.976	1.00	98	69-121
trans-1,2-Dichloroethene	0.926	1.00	93	76-128
1,1-Dichloroethane	0.918	1.00	92	70-124
2,2-Dichloropropane	0.864	1.00	86	74-133
cis-1,2-Dichloroethene	0.944	1.00	94	77-124
2-Butanone (MEK)	6.25	5.00	125 *	50-124
Bromochloromethane	1.05	1.00	105	73-117
Chloroform	0.929	1.00	93	73-125
1,1,1-Trichloroethane (TCA)	0.901	1.00	90	61-136
Carbon Tetrachloride	0.902	1.00	90	72-140
1,1-Dichloropropene	0.894	1.00	89	65-130
Benzene	0.883	1.00	88	70-134
1,2-Dichloroethane (EDC)	0.976	1.00	98	70-126
Trichloroethene (TCE)	0.937	1.00	94	75-125
1,2-Dichloropropene	0.947	1.00	95	73-121
Dibromomethane	1.06	1.00	106	68-123
Bromodichloromethane	0.917	1.00	92	76-128
cis-1,3-Dichloropropene	1.00	1.00	100	74-123
4-Methyl-2-pentanone (MIBK)	5.42	5.00	108	57-127
Toluene	0.950	1.00	95	74-118
trans-1,3-Dichloropropene	0.889	1.00	89	66-115
1,1,2-Trichloroethane	1.02	1.00	102	73-118
Tetrachloroethene (PCE)	0.875	1.00	88	69-123
2-Hexanone	5.23	5.00	105	54-123
1,3-Dichloropropene	0.958	1.00	96	70-121
Dibromochloromethane	0.924	1.00	92	74-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg

Basis: Dry

Level: Med

Extraction Lot: KWG1006833

Lab Control Sample
KWG1006833-3
Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	1.02	1.00	102	70-122
Chlorobenzene	0.911	1.00	91	72-115
Ethylbenzene	0.923	1.00	92	72-121
1,1,1,2-Tetrachloroethane	0.960	1.00	96	71-120
m,p-Xylenes	1.87	2.00	93	74-124
o-Xylene	0.951	1.00	95	73-123
Styrene	0.984	1.00	98	77-122
Bromoform	0.974	1.00	97	75-121
Isopropylbenzene	0.955	1.00	96	68-121
1,1,2,2-Tetrachloroethane	0.992	1.00	99	63-127
Bromobenzene	0.952	1.00	95	66-118
n-Propylbenzene	0.883	1.00	88	70-131
1,2,3-Trichloropropane	1.02	1.00	102	68-122
2-Chlorotoluene	0.885	1.00	89	68-127
1,3,5-Trimethylbenzene	0.910	1.00	91	68-129
4-Chlorotoluene	0.887	1.00	89	66-121
tert-Butylbenzene	0.914	1.00	91	71-127
1,2,4-Trimethylbenzene	0.910	1.00	91	69-123
sec-Butylbenzene	0.846	1.00	85	70-132
4-Isopropyltoluene	0.881	1.00	88	68-127
1,3-Dichlorobenzene	0.932	1.00	93	69-117
1,4-Dichlorobenzene	0.920	1.00	92	69-114
n-Butylbenzene	0.859	1.00	86	69-126
1,2-Dichlorobenzene	0.939	1.00	94	75-114
1,2-Dibromo-3-chloropropane	0.960	1.00	96	46-132
1,2,4-Trichlorobenzene	0.980	1.00	98	69-119
Hexachlorobutadiene	0.768	1.00	77	67-128
Naphthalene	1.07	1.00	107	59-127
1,2,3-Trichlorobenzene	1.04	1.00	104	66-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010
Time Analyzed: 13:05

**Method Blank Summary
Volatile Organic Compounds**

Sample Name: Method Blank
Lab Code: KWG1006833-4
Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

File ID: J:\MS04\DATA\071310ML\0713F009.D
Instrument ID: MS04
Level: Med
Extraction Lot: KWG1006833

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SO-056393-071210-RP-VSRAP-004	K1007162-004	J:\MS04\DATA\071310ML\0713F013.D	07/13/10	15:16
SO-056393-071210-RP-VSRAP-005	K1007162-005	J:\MS04\DATA\071310ML\0713F014.D	07/13/10	15:49
Lab Control Sample	KWG1006833-3	J:\MS04\DATA\071310ML\0713F004.D	07/13/10	10:22
SO-056393-071010-CB-VSRAP-001MS	KWG1006833-1	J:\MS04\DATA\071310ML\0713F006.D	07/13/10	11:27
SO-056393-071010-CB-VSRAP-001DM	KWG1006833-2	J:\MS04\DATA\071310ML\0713F007.D	07/13/10	11:59
SO-056393-071010-CB-VSRAP-001	K1007162-001	J:\MS04\DATA\071310ML\0713F010.D	07/13/10	13:38
SO-056393-071010-CB-VSRAP-002	K1007162-002	J:\MS04\DATA\071310ML\0713F011.D	07/13/10	14:11
SO-056393-071210-RP-VSRAP-003	K1007162-003	J:\MS04\DATA\071310ML\0713F012.D	07/13/10	14:43

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010
Time Analyzed: 10:22

Lab Control Sample Summary
Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1006833-3
Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

File ID: J:\MS04\DATA\071310ML\0713F004.D
Instrument ID: MS04
Level: Med
Extraction Lot: KWG1006833

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SO-056393-071010-CB-VSRAP-001MS	KWG1006833-1	J:\MS04\DATA\071310ML\0713F006.D	07/13/10	11:27
SO-056393-071010-CB-VSRAP-001DM	KWG1006833-2	J:\MS04\DATA\071310ML\0713F007.D	07/13/10	11:59
Method Blank	KWG1006833-4	J:\MS04\DATA\071310ML\0713F009.D	07/13/10	13:05
SO-056393-071010-CB-VSRAP-001	K1007162-001	J:\MS04\DATA\071310ML\0713F010.D	07/13/10	13:38
SO-056393-071010-CB-VSRAP-002	K1007162-002	J:\MS04\DATA\071310ML\0713F011.D	07/13/10	14:11
SO-056393-071210-RP-VSRAP-003	K1007162-003	J:\MS04\DATA\071310ML\0713F012.D	07/13/10	14:43
SO-056393-071210-RP-VSRAP-004	K1007162-004	J:\MS04\DATA\071310ML\0713F013.D	07/13/10	15:16
SO-056393-071210-RP-VSRAP-005	K1007162-005	J:\MS04\DATA\071310ML\0713F014.D	07/13/10	15:49

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.

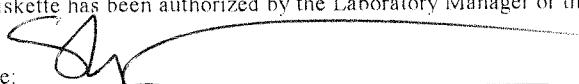
Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004

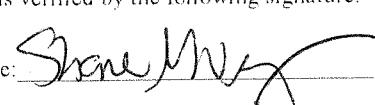
Service Request: K1007162

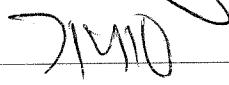
**Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)**

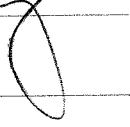
Sample Name	Lab Code	Date Collected	Date Received
SO-056393-071010-CB-VSRAP-	K1007162-001	07/10/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	K1007162-002	07/10/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-003	07/12/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-004	07/12/2010	07/13/2010
SO-056393-071210-RP-VSRAP-	K1007162-005	07/12/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	KWG1006834-1	07/10/2010	07/13/2010
SO-056393-071010-CB-VSRAP-	KWG1006834-2	07/10/2010	07/13/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: 

Date: 

Title: 

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071010-CB-VSRAP-001	Units:	ug/Kg
Lab Code:	K1007162-001	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	12	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	23	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	12	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	12	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	270	12	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	12	2.4	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	12	2.4	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	116	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/10/2010
Date Received: 07/13/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-071010-CB-VSRAP-002 **Units:** ug/Kg
Lab Code: K1007162-002 **Basis:** Dry

Extraction Method: EPA 3541 **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	16	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	31	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	16	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	16	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	680	16	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	16	3.3	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	16	3.3	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	85	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-071210-RP-VSRAP-003 **Units:** ug/Kg
Lab Code: K1007162-003 **Basis:** Dry
Extraction Method: EPA 3541 **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	24	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	47	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	24	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	24	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	1700	24	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	24	5.0	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	24	5.0	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-071210-RP-VSRAP-004
Lab Code: K1007162-004
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg**Basis:** Dry**Level:** Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	47	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	630	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	97	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: 07/12/2010
Date Received: 07/13/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-071210-RP-VSRAP-005 **Units:** ug/Kg
Lab Code: K1007162-005 **Basis:** Dry
Extraction Method: EPA 3541 **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	47	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	27 P	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	24	4.9	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	60	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank **Units:** ug/Kg
Lab Code: KWG1006834-4 **Basis:** Dry
Extraction Method: EPA 3541 **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1221	ND U	10	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1232	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1242	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1248	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1254	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	
Aroclor 1260	ND U	5.0	2.1	1	07/13/10	07/13/10	KWG1006834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	88	35-133	07/13/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)****Extraction Method:** EPA 3541**Units:** PERCENT**Analysis Method:** 8082**Level:** Low

Sample Name	Lab Code	Sur1
SO-056393-071010-CB-VSRAP-	K1007162-001	116
SO-056393-071010-CB-VSRAP-	K1007162-002	85
SO-056393-071210-RP-VSRAP-	K1007162-003	75
SO-056393-071210-RP-VSRAP-	K1007162-004	97
SO-056393-071210-RP-VSRAP-	K1007162-005	60
Method Blank	KWG1006834-4	88
SO-056393-071010-CB-VSRAP-	KWG1006834-1	89
SO-056393-071010-CB-VSRAP-	KWG1006834-2	86
Lab Control Sample	KWG1006834-3	97

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071010-CB-VSRAP-001	Units:	ug/Kg
Lab Code:	K1007162-001	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1006834

SO-056393-071010-CB-VS
 RAP-001MS
 KWG1006834-1

SO-056393-071010-CB-VS
 RAP-001DMS
 KWG1006834-2

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	311	223	139	295	224	132	27-174	5	40
Aroclor 1260	ND	238	223	106	230	224	103	20-185	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1006834

Lab Control Sample
KWG1006834-3

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	193	200	96	48-121
Aroclor 1260	198	200	99	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010
Time Analyzed: 17:53

**Method Blank Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name: Method Blank
Lab Code: KWG1006834-4
Extraction Method: EPA 3541
Analysis Method: 8082

File ID: J:\GC09\DATA\071310.B\0713F004.D
Instrument ID: GC09.i
Level: Low
Extraction Lot: KWG1006834

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1006834-3	J:\GC09\DATA\071310.B\0713F005.D	07/13/10	18:19
SO-056393-071010-CB-VSRAP-001	K1007162-001	J:\GC09\DATA\071310.B\0713F006.D	07/13/10	18:46
SO-056393-071010-CB-VSRAP-001MS	KWG1006834-1	J:\GC09\DATA\071310.B\0713F007.D	07/13/10	19:12
SO-056393-071010-CB-VSRAP-001DM	KWG1006834-2	J:\GC09\DATA\071310.B\0713F008.D	07/13/10	19:39
SO-056393-071010-CB-VSRAP-002	K1007162-002	J:\GC09\DATA\071310.B\0713F009.D	07/13/10	20:06
SO-056393-071210-RP-VSRAP-003	K1007162-003	J:\GC09\DATA\071310.B\0713F010.D	07/13/10	20:32
SO-056393-071210-RP-VSRAP-004	K1007162-004	J:\GC09\DATA\071310.B\0713F011.D	07/13/10	20:59
SO-056393-071210-RP-VSRAP-005	K1007162-005	J:\GC09\DATA\071310.B\0713F012.D	07/13/10	21:26

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. Landfill/056393-07-004
Sample Matrix: Soil

Service Request: K1007162
Date Extracted: 07/13/2010
Date Analyzed: 07/13/2010
Time Analyzed: 18:19

**Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name: Lab Control Sample
Lab Code: KWG1006834-3
Extraction Method: EPA 3541
Analysis Method: 8082

File ID: J:\GC09\DATA\071310.B\0713F005.D
Instrument ID: GC09.i
Level: Low
Extraction Lot: KWG1006834

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1006834-4	J:\GC09\DATA\071310.B\0713F004.D	07/13/10	17:53
SO-056393-071010-CB-VSRAP-001	K1007162-001	J:\GC09\DATA\071310.B\0713F006.D	07/13/10	18:46
SO-056393-071010-CB-VSRAP-001MS	KWG1006834-1	J:\GC09\DATA\071310.B\0713F007.D	07/13/10	19:12
SO-056393-071010-CB-VSRAP-001DM	KWG1006834-2	J:\GC09\DATA\071310.B\0713F008.D	07/13/10	19:39
SO-056393-071010-CB-VSRAP-002	K1007162-002	J:\GC09\DATA\071310.B\0713F009.D	07/13/10	20:06
SO-056393-071210-RP-VSRAP-003	K1007162-003	J:\GC09\DATA\071310.B\0713F010.D	07/13/10	20:32
SO-056393-071210-RP-VSRAP-004	K1007162-004	J:\GC09\DATA\071310.B\0713F011.D	07/13/10	20:59
SO-056393-071210-RP-VSRAP-005	K1007162-005	J:\GC09\DATA\071310.B\0713F012.D	07/13/10	21:26

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071310-RP-VSRAP-006	Units: ug/Kg
Lab Code:	K1007246-001	Basis: Dry
Extraction Method:	EPA 3550B	Level: Low
Analysis Method:	8082	

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND	U	37	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND	U	19	2.4	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	64	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071310-RP-VSRAP-007	Units:	ug/Kg
Lab Code:	K1007246-002	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND U	44	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND U	22	2.9	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071310-RP-VSRAP-008	Units: ug/Kg
Lab Code:	K1007246-003	Basis: Dry
Extraction Method:	EPA 3550B	Level: Low
Analysis Method:	8082	

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND U	41	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND U	21	2.7	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1006950-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND U	10	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	85	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-071310-RP-VSRAP-	KWG1006950-1	72
SO-056393-071310-RP-VSRAP-	KWG1006950-2	74
Lab Control Sample	KWG1006950-3	87
SO-056393-071310-RP-VSRAP-	K1007246-001	64
SO-056393-071310-RP-VSRAP-	K1007246-002	77
SO-056393-071310-RP-VSRAP-	K1007246-003	77
Method Blank	KWG1006950-4	85

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Extracted: 07/15/2010
Date Analyzed: 07/15/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071310-RP-VSRAP-006			Units:	ug/Kg					
Lab Code:	K1007246-001			Basis:	Dry					
Extraction Method:	EPA 3550B			Level:	Low					
Analysis Method:	8082			Extraction Lot:	KWG1006950					
		SO-056393-071310-RP-VS	RAP-006MS	SO-056393-071310-RP-VS	RAP-006DMS					
			KWG1006950-1		KWG1006950-2					
		Matrix Spike			Duplicate Matrix Spike					
Analyte Name	Sample Result	Result	Expected	%Rec	Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	ND	293	361	81	315	361	87	27-174	7	40
Aroclor 1260	ND	301	361	84	313	361	87	20-185	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Extracted: 07/15/2010
Date Analyzed: 07/15/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1006950

Lab Control Sample

KWG1006950-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	158	200	79	48-121
Aroclor 1260	187	200	93	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-006	Units:	mg/Kg
Lab Code:	K1007246-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.53	0.14	1	07/14/10	07/14/10	KWG1006905	
Chloromethane	ND	U	0.53	0.056	1	07/14/10	07/14/10	KWG1006905	
Vinyl Chloride	ND	U	0.53	0.080	1	07/14/10	07/14/10	KWG1006905	
Bromomethane	ND	U	0.53	0.095	1	07/14/10	07/14/10	KWG1006905	
Chloroethane	ND	U	0.53	0.17	1	07/14/10	07/14/10	KWG1006905	
Trichlorofluoromethane	ND	U	0.53	0.13	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethene	ND	U	0.53	0.079	1	07/14/10	07/14/10	KWG1006905	
Acetone	7.0	J	22	3.5	1	07/14/10	07/14/10	KWG1006905	
Carbon Disulfide	ND	U	0.53	0.11	1	07/14/10	07/14/10	KWG1006905	
Methylene Chloride	0.25	J	2.2	0.18	1	07/14/10	07/14/10	KWG1006905	
trans-1,2-Dichloroethene	ND	U	0.53	0.096	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethane	ND	U	0.53	0.082	1	07/14/10	07/14/10	KWG1006905	
2,2-Dichloropropane	ND	U	0.53	0.064	1	07/14/10	07/14/10	KWG1006905	
cis-1,2-Dichloroethene	ND	U	0.53	0.071	1	07/14/10	07/14/10	KWG1006905	
2-Butanone (MEK)	3.5	J	22	2.1	1	07/14/10	07/14/10	KWG1006905	*
Bromochloromethane	ND	U	0.53	0.17	1	07/14/10	07/14/10	KWG1006905	
Chloroform	ND	U	0.53	0.068	1	07/14/10	07/14/10	KWG1006905	
1,1,1-Trichloroethane (TCA)	ND	U	0.53	0.080	1	07/14/10	07/14/10	KWG1006905	
Carbon Tetrachloride	ND	U	0.53	0.11	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloropropene	ND	U	0.53	0.094	1	07/14/10	07/14/10	KWG1006905	
Benzene	ND	U	0.53	0.057	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloroethane (EDC)	ND	U	0.53	0.085	1	07/14/10	07/14/10	KWG1006905	
Trichloroethene (TCE)	ND	U	0.53	0.11	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloropropane	ND	U	0.53	0.11	1	07/14/10	07/14/10	KWG1006905	
Dibromomethane	ND	U	0.53	0.16	1	07/14/10	07/14/10	KWG1006905	
Bromodichloromethane	ND	U	0.53	0.096	1	07/14/10	07/14/10	KWG1006905	
cis-1,3-Dichloropropene	ND	U	0.53	0.19	1	07/14/10	07/14/10	KWG1006905	
4-Methyl-2-pentanone (MIBK)	ND	U	22	2.8	1	07/14/10	07/14/10	KWG1006905	
Toluene	ND	U	0.53	0.055	1	07/14/10	07/14/10	KWG1006905	
trans-1,3-Dichloropropene	ND	U	0.53	0.072	1	07/14/10	07/14/10	KWG1006905	
1,1,2-Trichloroethane	ND	U	0.53	0.15	1	07/14/10	07/14/10	KWG1006905	
Tetrachloroethene (PCE)	ND	U	0.53	0.070	1	07/14/10	07/14/10	KWG1006905	
2-Hexanone	ND	U	22	2.9	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichloropropane	ND	U	0.53	0.15	1	07/14/10	07/14/10	KWG1006905	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-006	Units:	mg/Kg
Lab Code:	K1007246-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.53	0.15	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromoethane (EDB)	ND	U	2.2	0.11	1	07/14/10	07/14/10	KWG1006905	
Chlorobenzene	ND	U	0.53	0.12	1	07/14/10	07/14/10	KWG1006905	
Ethylbenzene	ND	U	0.53	0.053	1	07/14/10	07/14/10	KWG1006905	
1,1,1,2-Tetrachloroethane	ND	U	0.53	0.12	1	07/14/10	07/14/10	KWG1006905	
m,p-Xylenes	ND	U	0.53	0.096	1	07/14/10	07/14/10	KWG1006905	
o-Xylene	ND	U	0.53	0.079	1	07/14/10	07/14/10	KWG1006905	
Styrene	ND	U	0.53	0.13	1	07/14/10	07/14/10	KWG1006905	
Bromoform	ND	U	0.53	0.17	1	07/14/10	07/14/10	KWG1006905	
Isopropylbenzene	ND	U	2.2	0.096	1	07/14/10	07/14/10	KWG1006905	
1,1,2,2-Tetrachloroethane	ND	U	0.53	0.17	1	07/14/10	07/14/10	KWG1006905	
Bromobenzene	ND	U	2.2	0.13	1	07/14/10	07/14/10	KWG1006905	
n-Propylbenzene	ND	U	2.2	0.56	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichloropropane	ND	U	0.53	0.22	1	07/14/10	07/14/10	KWG1006905	
2-Chlorotoluene	ND	U	2.2	0.11	1	07/14/10	07/14/10	KWG1006905	
1,3,5-Trimethylbenzene	ND	U	2.2	0.094	1	07/14/10	07/14/10	KWG1006905	
4-Chlorotoluene	ND	U	2.2	0.14	1	07/14/10	07/14/10	KWG1006905	
tert-Butylbenzene	ND	U	2.2	0.056	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trimethylbenzene	ND	U	2.2	0.073	1	07/14/10	07/14/10	KWG1006905	
sec-Butylbenzene	ND	U	2.2	0.051	1	07/14/10	07/14/10	KWG1006905	
4-Isopropyltoluene	ND	U	2.2	0.054	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichlorobenzene	ND	U	0.53	0.11	1	07/14/10	07/14/10	KWG1006905	
1,4-Dichlorobenzene	ND	U	0.53	0.13	1	07/14/10	07/14/10	KWG1006905	
n-Butylbenzene	ND	U	2.2	0.45	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichlorobenzene	ND	U	0.53	0.13	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromo-3-chloropropane	ND	U	2.2	0.22	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trichlorobenzene	ND	U	2.2	0.11	1	07/14/10	07/14/10	KWG1006905	
Hexachlorobutadiene	ND	U	2.2	0.12	1	07/14/10	07/14/10	KWG1006905	
Naphthalene	ND	U	2.2	0.093	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichlorobenzene	ND	U	2.2	0.12	1	07/14/10	07/14/10	KWG1006905	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name: SO-056393-071310-RP-VSRAP-006 **Units:** mg/Kg
Lab Code: K1007246-001 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	68-119	07/14/10	Acceptable
Toluene-d8	116	81-124	07/14/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/14/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-007	Units:	mg/Kg
Lab Code:	K1007246-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	0.13	1	07/14/10	07/14/10	KWG1006905	
Chloromethane	ND	U	0.50	0.053	1	07/14/10	07/14/10	KWG1006905	
Vinyl Chloride	ND	U	0.50	0.075	1	07/14/10	07/14/10	KWG1006905	
Bromomethane	ND	U	0.50	0.089	1	07/14/10	07/14/10	KWG1006905	
Chloroethane	ND	U	0.50	0.16	1	07/14/10	07/14/10	KWG1006905	
Trichlorofluoromethane	ND	U	0.50	0.12	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethene	ND	U	0.50	0.074	1	07/14/10	07/14/10	KWG1006905	
Acetone	4.0	J	20	3.3	1	07/14/10	07/14/10	KWG1006905	
Carbon Disulfide	ND	U	0.50	0.099	1	07/14/10	07/14/10	KWG1006905	
Methylene Chloride	0.22	J	2.0	0.17	1	07/14/10	07/14/10	KWG1006905	
trans-1,2-Dichloroethene	ND	U	0.50	0.090	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethane	ND	U	0.50	0.077	1	07/14/10	07/14/10	KWG1006905	
2,2-Dichloropropane	ND	U	0.50	0.060	1	07/14/10	07/14/10	KWG1006905	
cis-1,2-Dichloroethene	ND	U	0.50	0.067	1	07/14/10	07/14/10	KWG1006905	
2-Butanone (MEK)	3.1	J	20	1.9	1	07/14/10	07/14/10	KWG1006905	*
Bromochloromethane	ND	U	0.50	0.16	1	07/14/10	07/14/10	KWG1006905	
Chloroform	ND	U	0.50	0.064	1	07/14/10	07/14/10	KWG1006905	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.075	1	07/14/10	07/14/10	KWG1006905	
Carbon Tetrachloride	ND	U	0.50	0.095	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloropropene	ND	U	0.50	0.088	1	07/14/10	07/14/10	KWG1006905	
Benzene	ND	U	0.50	0.054	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.080	1	07/14/10	07/14/10	KWG1006905	
Trichloroethene (TCE)	ND	U	0.50	0.099	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloropropane	ND	U	0.50	0.094	1	07/14/10	07/14/10	KWG1006905	
Dibromomethane	ND	U	0.50	0.15	1	07/14/10	07/14/10	KWG1006905	
Bromodichloromethane	ND	U	0.50	0.090	1	07/14/10	07/14/10	KWG1006905	
cis-1,3-Dichloropropene	ND	U	0.50	0.18	1	07/14/10	07/14/10	KWG1006905	
4-Methyl-2-pentanone (MIBK)	ND	U	20	2.6	1	07/14/10	07/14/10	KWG1006905	
Toluene	ND	U	0.50	0.052	1	07/14/10	07/14/10	KWG1006905	
trans-1,3-Dichloropropene	ND	U	0.50	0.068	1	07/14/10	07/14/10	KWG1006905	
1,1,2-Trichloroethane	ND	U	0.50	0.14	1	07/14/10	07/14/10	KWG1006905	
Tetrachloroethene (PCE)	ND	U	0.50	0.066	1	07/14/10	07/14/10	KWG1006905	
2-Hexanone	ND	U	20	2.7	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichloropropane	ND	U	0.50	0.14	1	07/14/10	07/14/10	KWG1006905	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-007	Units:	mg/Kg
Lab Code:	K1007246-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	0.14	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromoethane (EDB)	ND	U	2.0	0.099	1	07/14/10	07/14/10	KWG1006905	
Chlorobenzene	ND	U	0.50	0.11	1	07/14/10	07/14/10	KWG1006905	
Ethylbenzene	ND	U	0.50	0.050	1	07/14/10	07/14/10	KWG1006905	
1,1,1,2-Tetrachloroethane	ND	U	0.50	0.11	1	07/14/10	07/14/10	KWG1006905	
m,p-Xylenes	ND	U	0.50	0.090	1	07/14/10	07/14/10	KWG1006905	
o-Xylene	ND	U	0.50	0.074	1	07/14/10	07/14/10	KWG1006905	
Styrene	ND	U	0.50	0.12	1	07/14/10	07/14/10	KWG1006905	
Bromoform	ND	U	0.50	0.16	1	07/14/10	07/14/10	KWG1006905	
Isopropylbenzene	ND	U	2.0	0.090	1	07/14/10	07/14/10	KWG1006905	
1,1,2,2-Tetrachloroethane	ND	U	0.50	0.16	1	07/14/10	07/14/10	KWG1006905	
Bromobenzene	ND	U	2.0	0.12	1	07/14/10	07/14/10	KWG1006905	
n-Propylbenzene	ND	U	2.0	0.53	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichloropropane	ND	U	0.50	0.20	1	07/14/10	07/14/10	KWG1006905	
2-Chlorotoluene	ND	U	2.0	0.099	1	07/14/10	07/14/10	KWG1006905	
1,3,5-Trimethylbenzene	ND	U	2.0	0.088	1	07/14/10	07/14/10	KWG1006905	
4-Chlorotoluene	ND	U	2.0	0.13	1	07/14/10	07/14/10	KWG1006905	
tert-Butylbenzene	ND	U	2.0	0.053	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trimethylbenzene	ND	U	2.0	0.069	1	07/14/10	07/14/10	KWG1006905	
sec-Butylbenzene	ND	U	2.0	0.048	1	07/14/10	07/14/10	KWG1006905	
4-Isopropyltoluene	ND	U	2.0	0.051	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichlorobenzene	ND	U	0.50	0.099	1	07/14/10	07/14/10	KWG1006905	
1,4-Dichlorobenzene	ND	U	0.50	0.12	1	07/14/10	07/14/10	KWG1006905	
n-Butylbenzene	ND	U	2.0	0.42	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichlorobenzene	ND	U	0.50	0.12	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromo-3-chloropropane	ND	U	2.0	0.20	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trichlorobenzene	ND	U	2.0	0.095	1	07/14/10	07/14/10	KWG1006905	
Hexachlorobutadiene	ND	U	2.0	0.11	1	07/14/10	07/14/10	KWG1006905	
Naphthalene	ND	U	2.0	0.087	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichlorobenzene	ND	U	2.0	0.11	1	07/14/10	07/14/10	KWG1006905	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name: SO-056393-071310-RP-VSRAP-007 **Units:** mg/Kg
Lab Code: K1007246-002 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	68-119	07/14/10	Acceptable
Toluene-d8	117	81-124	07/14/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/14/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-008	Units:	mg/Kg
Lab Code:	K1007246-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.56	0.15	1	07/14/10	07/14/10	KWG1006905	
Chloromethane	ND	U	0.56	0.060	1	07/14/10	07/14/10	KWG1006905	
Vinyl Chloride	ND	U	0.56	0.084	1	07/14/10	07/14/10	KWG1006905	
Bromomethane	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
Chloroethane	ND	U	0.56	0.18	1	07/14/10	07/14/10	KWG1006905	
Trichlorofluoromethane	ND	U	0.56	0.14	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethene	ND	U	0.56	0.083	1	07/14/10	07/14/10	KWG1006905	
Acetone	4.5	J	23	3.7	1	07/14/10	07/14/10	KWG1006905	
Carbon Disulfide	ND	U	0.56	0.12	1	07/14/10	07/14/10	KWG1006905	
Methylene Chloride	0.25	J	2.3	0.20	1	07/14/10	07/14/10	KWG1006905	
trans-1,2-Dichloroethene	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethane	ND	U	0.56	0.087	1	07/14/10	07/14/10	KWG1006905	
2,2-Dichloropropane	ND	U	0.56	0.068	1	07/14/10	07/14/10	KWG1006905	
cis-1,2-Dichloroethene	ND	U	0.56	0.075	1	07/14/10	07/14/10	KWG1006905	
2-Butanone (MEK)	4.2	J	23	2.2	1	07/14/10	07/14/10	KWG1006905	*
Bromochloromethane	ND	U	0.56	0.18	1	07/14/10	07/14/10	KWG1006905	
Chloroform	ND	U	0.56	0.072	1	07/14/10	07/14/10	KWG1006905	
1,1,1-Trichloroethane (TCA)	ND	U	0.56	0.084	1	07/14/10	07/14/10	KWG1006905	
Carbon Tetrachloride	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloropropene	ND	U	0.56	0.10	1	07/14/10	07/14/10	KWG1006905	
Benzene	ND	U	0.56	0.061	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloroethane (EDC)	ND	U	0.56	0.090	1	07/14/10	07/14/10	KWG1006905	
Trichloroethene (TCE)	ND	U	0.56	0.12	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloropropane	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
Dibromomethane	ND	U	0.56	0.17	1	07/14/10	07/14/10	KWG1006905	
Bromodichloromethane	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
cis-1,3-Dichloropropene	ND	U	0.56	0.21	1	07/14/10	07/14/10	KWG1006905	
4-Methyl-2-pentanone (MIBK)	ND	U	23	3.0	1	07/14/10	07/14/10	KWG1006905	
Toluene	ND	U	0.56	0.059	1	07/14/10	07/14/10	KWG1006905	
trans-1,3-Dichloropropene	ND	U	0.56	0.077	1	07/14/10	07/14/10	KWG1006905	
1,1,2-Trichloroethane	ND	U	0.56	0.16	1	07/14/10	07/14/10	KWG1006905	
Tetrachloroethene (PCE)	ND	U	0.56	0.074	1	07/14/10	07/14/10	KWG1006905	
2-Hexanone	ND	U	23	3.1	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichloropropane	ND	U	0.56	0.16	1	07/14/10	07/14/10	KWG1006905	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-008	Units:	mg/Kg
Lab Code:	K1007246-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.56	0.16	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromoethane (EDB)	ND	U	2.3	0.12	1	07/14/10	07/14/10	KWG1006905	
Chlorobenzene	ND	U	0.56	0.13	1	07/14/10	07/14/10	KWG1006905	
Ethylbenzene	ND	U	0.56	0.056	1	07/14/10	07/14/10	KWG1006905	
1,1,1,2-Tetrachloroethane	ND	U	0.56	0.13	1	07/14/10	07/14/10	KWG1006905	
m,p-Xylenes	ND	U	0.56	0.11	1	07/14/10	07/14/10	KWG1006905	
o-Xylene	ND	U	0.56	0.083	1	07/14/10	07/14/10	KWG1006905	
Styrene	ND	U	0.56	0.14	1	07/14/10	07/14/10	KWG1006905	
Bromoform	ND	U	0.56	0.18	1	07/14/10	07/14/10	KWG1006905	
Isopropylbenzene	ND	U	2.3	0.11	1	07/14/10	07/14/10	KWG1006905	
1,1,2,2-Tetrachloroethane	ND	U	0.56	0.18	1	07/14/10	07/14/10	KWG1006905	
Bromobenzene	ND	U	2.3	0.14	1	07/14/10	07/14/10	KWG1006905	
n-Propylbenzene	ND	U	2.3	0.60	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichloropropane	ND	U	0.56	0.23	1	07/14/10	07/14/10	KWG1006905	
2-Chlorotoluene	ND	U	2.3	0.12	1	07/14/10	07/14/10	KWG1006905	
1,3,5-Trimethylbenzene	ND	U	2.3	0.10	1	07/14/10	07/14/10	KWG1006905	
4-Chlorotoluene	ND	U	2.3	0.15	1	07/14/10	07/14/10	KWG1006905	
tert-Butylbenzene	ND	U	2.3	0.060	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trimethylbenzene	ND	U	2.3	0.078	1	07/14/10	07/14/10	KWG1006905	
sec-Butylbenzene	ND	U	2.3	0.054	1	07/14/10	07/14/10	KWG1006905	
4-Isopropyltoluene	ND	U	2.3	0.058	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichlorobenzene	ND	U	0.56	0.12	1	07/14/10	07/14/10	KWG1006905	
1,4-Dichlorobenzene	ND	U	0.56	0.14	1	07/14/10	07/14/10	KWG1006905	
n-Butylbenzene	ND	U	2.3	0.47	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichlorobenzene	ND	U	0.56	0.14	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromo-3-chloropropane	ND	U	2.3	0.23	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trichlorobenzene	ND	U	2.3	0.11	1	07/14/10	07/14/10	KWG1006905	
Hexachlorobutadiene	ND	U	2.3	0.13	1	07/14/10	07/14/10	KWG1006905	
Naphthalene	ND	U	2.3	0.099	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichlorobenzene	ND	U	2.3	0.13	1	07/14/10	07/14/10	KWG1006905	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: 07/13/2010
Date Received: 07/14/2010

Volatile Organic Compounds

Sample Name: SO-056393-071310-RP-VSRAP-008 **Units:** mg/Kg
Lab Code: K1007246-003 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	68-119	07/14/10	Acceptable
Toluene-d8	118	81-124	07/14/10	Acceptable
4-Bromofluorobenzene	95	64-132	07/14/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1006905-3	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/14/10	07/14/10	KWG1006905	
Chloromethane	ND	U	0.050	0.0053	1	07/14/10	07/14/10	KWG1006905	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/14/10	07/14/10	KWG1006905	
Bromomethane	ND	U	0.050	0.0090	1	07/14/10	07/14/10	KWG1006905	
Chloroethane	ND	U	0.050	0.016	1	07/14/10	07/14/10	KWG1006905	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/14/10	07/14/10	KWG1006905	
Acetone	ND	U	2.0	0.33	1	07/14/10	07/14/10	KWG1006905	
Carbon Disulfide	ND	U	0.050	0.010	1	07/14/10	07/14/10	KWG1006905	
Methylene Chloride	ND	U	0.20	0.017	1	07/14/10	07/14/10	KWG1006905	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/14/10	07/14/10	KWG1006905	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/14/10	07/14/10	KWG1006905	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/14/10	07/14/10	KWG1006905	
2-Butanone (MEK)	0.20	J	2.0	0.19	1	07/14/10	07/14/10	KWG1006905	*
Bromochloromethane	ND	U	0.050	0.016	1	07/14/10	07/14/10	KWG1006905	
Chloroform	ND	U	0.050	0.0064	1	07/14/10	07/14/10	KWG1006905	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/14/10	07/14/10	KWG1006905	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/14/10	07/14/10	KWG1006905	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/14/10	07/14/10	KWG1006905	
Benzene	ND	U	0.050	0.0054	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/14/10	07/14/10	KWG1006905	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/14/10	07/14/10	KWG1006905	
Dibromomethane	ND	U	0.050	0.015	1	07/14/10	07/14/10	KWG1006905	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/14/10	07/14/10	KWG1006905	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/14/10	07/14/10	KWG1006905	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/14/10	07/14/10	KWG1006905	
Toluene	ND	U	0.050	0.0052	1	07/14/10	07/14/10	KWG1006905	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/14/10	07/14/10	KWG1006905	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/14/10	07/14/10	KWG1006905	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/14/10	07/14/10	KWG1006905	
2-Hexanone	ND	U	2.0	0.27	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/14/10	07/14/10	KWG1006905	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1006905-3	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.050	0.014	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/14/10	07/14/10	KWG1006905	
Chlorobenzene	ND	U	0.050	0.011	1	07/14/10	07/14/10	KWG1006905	
Ethylbenzene	ND	U	0.050	0.0050	1	07/14/10	07/14/10	KWG1006905	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/14/10	07/14/10	KWG1006905	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/14/10	07/14/10	KWG1006905	
o-Xylene	ND	U	0.050	0.0074	1	07/14/10	07/14/10	KWG1006905	
Styrene	ND	U	0.050	0.012	1	07/14/10	07/14/10	KWG1006905	
Bromoform	ND	U	0.050	0.016	1	07/14/10	07/14/10	KWG1006905	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/14/10	07/14/10	KWG1006905	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/14/10	07/14/10	KWG1006905	
Bromobenzene	ND	U	0.20	0.012	1	07/14/10	07/14/10	KWG1006905	
n-Propylbenzene	ND	U	0.20	0.053	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/14/10	07/14/10	KWG1006905	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/14/10	07/14/10	KWG1006905	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/14/10	07/14/10	KWG1006905	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/14/10	07/14/10	KWG1006905	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/14/10	07/14/10	KWG1006905	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/14/10	07/14/10	KWG1006905	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/14/10	07/14/10	KWG1006905	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/14/10	07/14/10	KWG1006905	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/14/10	07/14/10	KWG1006905	
n-Butylbenzene	ND	U	0.20	0.042	1	07/14/10	07/14/10	KWG1006905	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/14/10	07/14/10	KWG1006905	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/14/10	07/14/10	KWG1006905	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/14/10	07/14/10	KWG1006905	
Hexachlorobutadiene	0.019	J	0.20	0.011	1	07/14/10	07/14/10	KWG1006905	
Naphthalene	ND	U	0.20	0.0088	1	07/14/10	07/14/10	KWG1006905	
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/14/10	07/14/10	KWG1006905	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG1006905-3 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	68-119	07/14/10	Acceptable
Toluene-d8	114	81-124	07/14/10	Acceptable
4-Bromofluorobenzene	97	64-132	07/14/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246**Surrogate Recovery Summary
Volatile Organic Compounds**

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: PERCENT
Level: Med

Sample Name	Lab Code	Sur1	Sur2	Sur3
SO-056393-071310-RP-VSRAP-	K1007246-001	105	116	96
SO-056393-071310-RP-VSRAP-	K1007246-002	105	117	96
SO-056393-071310-RP-VSRAP-	K1007246-003	107	118	95
Method Blank	KWG1006905-3	105	114	97
SO-056393-071310-RP-VSRAP-	KWG1006905-4	103	116	102
SO-056393-071310-RP-VSRAP-	KWG1006905-5	101	116	101
Lab Control Sample	KWG1006905-1	103	114	103
Duplicate Lab Control Sample	KWG1006905-2	104	114	101

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	68-119
Sur2 = Toluene-d8	81-124
Sur3 = 4-Bromofluorobenzene	64-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Extracted: 07/14/2010
Date Analyzed: 07/14/2010

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	SO-056393-071310-RP-VSRAP-007	Units:	mg/Kg
Lab Code:	K1007246-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B	Extraction Lot:	KWG1006905

SO-056393-071310-RP-VS	SO-056393-071310-RP-VS
RAP-007MS	RAP-007DMS
KWG1006905-4	KWG1006905-5

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	7.93	9.88	80	7.57	9.88	77	44-140	5	40
1,1-Dichloroethene	ND	9.93	9.88	101	9.58	9.88	97	61-132	4	40
Chloroform	ND	9.20	9.88	93	8.92	9.88	90	62-113	3	40
Carbon Tetrachloride	ND	8.96	9.88	91	8.58	9.88	87	56-124	4	40
Benzene	ND	8.85	9.88	90	8.74	9.88	89	70-120	1	40
Trichloroethene (TCE)	ND	9.33	9.88	94	9.20	9.88	93	62-119	1	40
Bromodichloromethane	ND	8.71	9.88	88	8.67	9.88	88	75-118	0	40
Toluene	ND	9.75	9.88	99	9.60	9.88	97	67-123	2	40
1,1,2-Trichloroethane	ND	9.61	9.88	97	9.66	9.88	98	74-113	1	40
2-Hexanone	ND	47.9	49.4	97	48.5	49.4	98	58-118	1	40
Chlorobenzene	ND	8.88	9.88	90	8.88	9.88	90	70-115	0	40
Ethylbenzene	ND	9.04	9.88	92	8.95	9.88	91	68-121	1	40
1,2,3-Trichloropropane	ND	9.67	9.88	98	9.70	9.88	98	29-169	0	40
2-Chlorotoluene	ND	8.56	9.88	87	8.44	9.88	85	61-134	1	40
1,2-Dichlorobenzene	ND	8.96	9.88	91	8.92	9.88	90	75-109	0	40
Naphthalene	ND	9.80	9.88	99	10.7	9.88	108	44-163	8	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorporated
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Extracted: 07/14/2010
Date Analyzed: 07/14/2010

Lab Control Spike/Duplicate Lab Control Spike Summary

Volatile Organic Compounds

Analyte Name	Lab Control Sample KWG1006905-1			Duplicate Lab Control Sample KWG1006905-2			%Rec Limits	RPD Limit		
	Lab Control Spike			Duplicate Lab Control Spike						
	Result	Expected	%Rec	Result	Expected	%Rec				
Dichlorodifluoromethane	0.731	1.00	73	0.667	1.00	67	32-164	9	40	
Chloromethane	0.740	1.00	74	0.740	1.00	74	44-136	0	40	
Vinyl Chloride	0.808	1.00	81	0.788	1.00	79	45-153	3	40	
Bromomethane	0.906	1.00	91	0.921	1.00	92	29-171	2	40	
Chloroethane	0.836	1.00	84	0.830	1.00	83	53-134	1	40	
Trichlorofluoromethane	0.747	1.00	75	0.705	1.00	71	55-140	6	40	
1,1-Dichloroethene	1.00	1.00	100	0.986	1.00	99	67-141	2	40	
Acetone	5.49	5.00	110	5.43	5.00	109	38-136	1	40	
Carbon Disulfide	2.03	2.00	101	2.01	2.00	100	69-129	1	40	
Methylene Chloride	0.968	1.00	97	0.984	1.00	98	69-121	2	40	
trans-1,2-Dichloroethene	0.947	1.00	95	0.947	1.00	95	76-128	0	40	
1,1-Dichloroethane	0.918	1.00	92	0.921	1.00	92	70-124	0	40	
2,2-Dichloropropane	0.880	1.00	88	0.862	1.00	86	74-133	2	40	
cis-1,2-Dichloroethene	0.956	1.00	96	0.963	1.00	96	77-124	1	40	
2-Butanone (MEK)	6.28	5.00	126 *	6.56	5.00	131 *	50-124	4	40	
Bromochloromethane	1.08	1.00	108	1.10	1.00	110	73-117	1	40	
Chloroform	0.933	1.00	93	0.948	1.00	95	73-125	2	40	
1,1,1-Trichloroethane (TCA)	0.910	1.00	91	0.903	1.00	90	61-136	1	40	
Carbon Tetrachloride	0.921	1.00	92	0.912	1.00	91	72-140	1	40	
1,1-Dichloropropene	0.911	1.00	91	0.914	1.00	91	65-130	0	40	
Benzene	0.888	1.00	89	0.898	1.00	90	70-134	1	40	
1,2-Dichloroethane (EDC)	0.973	1.00	97	0.985	1.00	99	70-126	1	40	
Trichloroethene (TCE)	0.962	1.00	96	0.967	1.00	97	75-125	1	40	
1,2-Dichloropropane	0.960	1.00	96	0.968	1.00	97	73-121	1	40	
Dibromomethane	1.08	1.00	108	1.08	1.00	108	68-123	0	40	
Bromodichloromethane	0.920	1.00	92	0.933	1.00	93	76-128	1	40	
cis-1,3-Dichloropropene	1.02	1.00	102	1.03	1.00	103	74-123	1	40	
4-Methyl-2-pentanone (MIBK)	5.98	5.00	120	5.92	5.00	118	57-127	1	40	
Toluene	0.965	1.00	97	0.977	1.00	98	74-118	1	40	
trans-1,3-Dichloropropene	0.900	1.00	90	0.909	1.00	91	66-115	1	40	
1,1,2-Trichloroethane	1.04	1.00	104	1.07	1.00	107	73-118	3	40	
Tetrachloroethene (PCE)	0.907	1.00	91	0.902	1.00	90	69-123	1	40	
2-Hexanone	5.43	5.00	109	5.44	5.00	109	54-123	0	40	
1,3-Dichloropropane	0.979	1.00	98	0.996	1.00	100	70-121	2	40	
Dibromochloromethane	0.936	1.00	94	0.958	1.00	96	74-123	2	40	
1,2-Dibromoethane (EDB)	1.06	1.00	106	1.06	1.00	106	70-122	0	40	

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorporated
Project: 12th Street LF/056393-007-004
Sample Matrix: Soil

Service Request: K1007246
Date Extracted: 07/14/2010
Date Analyzed: 07/14/2010

Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

Analyte Name	Lab Control Sample KWG1006905-1 Lab Control Spike			Duplicate Lab Control Sample KWG1006905-2 Duplicate Lab Control Spike				%Rec Limits	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Chlorobenzene	0.909	1.00	91	0.926	1.00	93	72-115	2	40
Ethylbenzene	0.917	1.00	92	0.935	1.00	94	72-121	2	40
1,1,1,2-Tetrachloroethane	0.953	1.00	95	0.989	1.00	99	71-120	4	40
m,p-Xylenes	1.86	2.00	93	1.88	2.00	94	74-124	1	40
o-Xylene	0.945	1.00	95	0.965	1.00	97	73-123	2	40
Styrene	0.979	1.00	98	1.01	1.00	101	77-122	3	40
Bromoform	1.01	1.00	101	1.02	1.00	102	75-121	2	40
Isopropylbenzene	0.953	1.00	95	0.962	1.00	96	68-121	1	40
1,1,2,2-Tetrachloroethane	1.01	1.00	101	1.03	1.00	103	63-127	2	40
Bromobenzene	0.951	1.00	95	0.970	1.00	97	66-118	2	40
n-Propylbenzene	0.875	1.00	88	0.884	1.00	88	70-131	1	40
1,2,3-Trichloropropane	1.03	1.00	103	1.05	1.00	105	68-122	2	40
2-Chlorotoluene	0.865	1.00	87	0.894	1.00	89	68-127	3	40
1,3,5-Trimethylbenzene	0.896	1.00	90	0.908	1.00	91	68-129	1	40
4-Chlorotoluene	0.866	1.00	87	0.885	1.00	89	66-121	2	40
tert-Butylbenzene	0.917	1.00	92	0.917	1.00	92	71-127	0	40
1,2,4-Trimethylbenzene	0.889	1.00	89	0.916	1.00	92	69-123	3	40
sec-Butylbenzene	0.841	1.00	84	0.847	1.00	85	70-132	1	40
4-Isopropyltoluene	0.869	1.00	87	0.892	1.00	89	68-127	3	40
1,3-Dichlorobenzene	0.911	1.00	91	0.936	1.00	94	69-117	3	40
1,4-Dichlorobenzene	0.896	1.00	90	0.926	1.00	93	69-114	3	40
n-Butylbenzene	0.840	1.00	84	0.860	1.00	86	69-126	2	40
1,2-Dichlorobenzene	0.929	1.00	93	0.959	1.00	96	75-114	3	40
1,2-Dibromo-3-chloropropane	1.02	1.00	102	1.02	1.00	102	46-132	0	40
1,2,4-Trichlorobenzene	0.993	1.00	99	1.02	1.00	102	69-119	3	40
Hexachlorobutadiene	0.797	1.00	80	0.807	1.00	81	67-128	1	40
Naphthalene	1.11	1.00	111	1.17	1.00	117	59-127	5	40
1,2,3-Trichlorobenzene	1.08	1.00	108	1.12	1.00	112	66-122	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. LF/056393-07-004
Sample Matrix: Soil

Service Request: K1007277
Date Collected: 07/14/2010
Date Received: 07/15/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071410-RP-VSRAP-009	Units: ug/Kg
Lab Code:	K1007277-001	Basis: Dry
Extraction Method:	EPA 3541	Level: Low
Analysis Method:	8082	

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND U	47	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND U	24	3.1	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	44	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. LF/056393-07-004
Sample Matrix: Soil

Service Request: K1007277
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1006950-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1221	ND U	10	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1232	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1242	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1248	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1254	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	
Aroclor 1260	ND U	5.0	1.3	1	07/15/10	07/15/10	KWG1006950	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	85	35-133	07/15/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. LF/056393-07-004
Sample Matrix: Soil

Service Request: K1007277**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3541
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
SO-056393-071410-RP-VSRAP-	K1007277-001	44
Method Blank	KWG1006950-4	85
Batch QC	K1007246-001	64
Batch QCMS	KWG1006950-1	72
Batch QCDMS	KWG1006950-2	74
Lab Control Sample	KWG1006950-3	87

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. LF/056393-07-004
Sample Matrix: Soil

Service Request: K1007277
Date Extracted: 07/15/2010
Date Analyzed: 07/15/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1007246-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1006950

Analyte Name	Sample Result	Batch QCMS KWG1006950-1			Batch QCDMS KWG1006950-2			%Rec Limits	RPD	RPD Limit			
		Matrix Spike			Duplicate Matrix Spike								
		Result	Expected	%Rec	Result	Expected	%Rec						
Aroclor 1016	ND	293	361	81	315	361	87	27-174	7	40			
Aroclor 1260	ND	301	361	84	313	361	87	20-185	4	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th St. LF/056393-07-004
Sample Matrix: Soil

Service Request: K1007277
Date Extracted: 07/15/2010
Date Analyzed: 07/15/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1006950

Lab Control Sample

KWG1006950-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	158	200	79	48-121
Aroclor 1260	187	200	93	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071610-CB-VSRAP-010	Units:	ug/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1221	ND U	65	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1232	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1242	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1248	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1254	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1260	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	108	35-133	07/19/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1007041-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1221	ND U	10	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1232	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1242	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1248	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1254	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1260	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	97	35-133	07/19/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-071610-CB-VSRAP-	K1007393-003	108
Method Blank	KWG1007041-4	97
Batch QC	K1007334-002	102
Batch QCMS	KWG1007041-1	109
Batch QCDMS	KWG1007041-2	118
Lab Control Sample	KWG1007041-3	109

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1007334-002	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1007041

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit			
		KGW1007041-1			KGW1007041-2								
		Matrix Spike			Duplicate Matrix Spike								
Analyte Name	Sample Result	Result	Expected	%Rec	Result	Expected	%Rec						
Aroclor 1016	ND	214	199	108	231	198	117	27-174	7	40			
Aroclor 1260	ND	218	199	109	232	198	117	20-185	7	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1007041

Lab Control Sample

KWG1007041-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	221	200	111	48-121
Aroclor 1260	224	200	112	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO056393-071910-RP-VSRAP-011	Units: ug/Kg
Lab Code:	K1007449-001	Basis: Dry
Extraction Method:	EPA 3550B	Level: Low
Analysis Method:	8082	

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	12	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1007133-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	10	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	99	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO056393-071910-RP-VSRAP-0	K1007449-001	93
Method Blank	KWG1007133-4	99
Batch QC	K1007472-001	81 D
Batch QCMS	KWG1007133-1	112 D
Batch QCDMS	KWG1007133-2	127 D
Lab Control Sample	KWG1007133-3	101

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1007472-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1007133

Analyte Name	Sample Result	Batch QCMS KWG1007133-1			Batch QCDMS KWG1007133-2			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit			
		Matrix Spike														
		Result	Expected	%Rec	Result	Expected	%Rec	Result	Expected	%Rec						
Aroclor 1016	ND	5670	117	4851 *	5260	117	4485 *	27-174	7	40						
Aroclor 1260	ND	1680	117	1439 *	1480	117	1261 *	20-185	13	40						

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1007133

Lab Control Sample

KWG1007133-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	188	200	94	48-121
Aroclor 1260	208	200	104	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name:	SO056393-071910-RP-VSRAP-011	Units:	mg/Kg
Lab Code:	K1007449-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.060	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.060	0.0064	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.060	0.0090	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.060	0.011	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.060	0.020	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.060	0.015	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.060	0.0088	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.4	0.40	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.060	0.012	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.24	0.021	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.060	0.011	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.060	0.0092	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.060	0.0072	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.060	0.0080	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.4	0.23	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.060	0.020	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.060	0.0077	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.060	0.0090	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.060	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.060	0.011	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.060	0.0065	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.060	0.0096	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.060	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.060	0.012	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.060	0.018	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.060	0.011	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.060	0.022	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.4	0.31	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.060	0.0062	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.060	0.0081	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.060	0.017	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.060	0.0079	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.4	0.33	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name:	SO056393-071910-RP-VSRAP-011	Units:	mg/Kg
Lab Code:	K1007449-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.060	0.017	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.060	0.017	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.24	0.012	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.060	0.014	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.060	0.0060	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.060	0.014	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.060	0.011	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.060	0.0088	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.060	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.060	0.020	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.24	0.011	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.060	0.020	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.24	0.015	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.24	0.064	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.060	0.024	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.24	0.012	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.24	0.011	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.24	0.016	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.24	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.24	0.0083	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.24	0.0058	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.24	0.0061	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.060	0.012	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.060	0.015	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.24	0.050	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.060	0.015	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.24	0.024	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.24	0.012	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.24	0.014	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.24	0.011	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.24	0.014	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name: SO056393-071910-RP-VSRAP-011 **Units:** mg/Kg
Lab Code: K1007449-001 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071910-RP-003	Units:	mg/Kg
Lab Code:	K1007449-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	0.0060	J	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071910-RP-003	Units:	mg/Kg
Lab Code:	K1007449-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: 07/19/2010
Date Received: 07/20/2010

Volatile Organic Compounds

Sample Name: TB-056393-071910-RP-003
Lab Code: K1007449-002

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	97	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	0.019	J	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	0.011	J	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG1007159-4 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	68-119	07/21/10	Acceptable
Toluene-d8	111	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449**Surrogate Recovery Summary
Volatile Organic Compounds**

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: PERCENT
Level: Med

Sample Name	Lab Code	Sur1	Sur2	Sur3
Batch QCDMS	KWG1007159-2	95	112	100
Lab Control Sample	KWG1007159-3	96	110	101
SO056393-071910-RP-VSRAP-0	K1007449-001	94	112	96
TB-056393-071910-RP-003	K1007449-002	95	112	97
Method Blank	KWG1007159-4	98	111	96
Batch QC	K1007393-003	94	111	97
Batch QCMS	KWG1007159-1	96	110	99

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	68-119
Sur2 = Toluene-d8	81-124
Sur3 = 4-Bromofluorobenzene	64-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	Batch QC	Units:	mg/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B	Extraction Lot:	KWG1007159

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit			
		KGW1007159-1			KGW1007159-2								
		Matrix Spike			Duplicate Matrix Spike								
		Result	Expected	%Rec	Result	Expected	%Rec						
Vinyl Chloride	ND	9.17	14.0	66	8.66	14.0	62	44-140	6	40			
1,1-Dichloroethene	ND	13.6	14.0	97	12.6	14.0	90	61-132	7	40			
Chloroform	ND	12.4	14.0	89	11.8	14.0	84	62-113	5	40			
Carbon Tetrachloride	ND	11.4	14.0	81	10.6	14.0	76	56-124	7	40			
Benzene	ND	12.8	14.0	92	12.3	14.0	88	70-120	4	40			
Trichloroethene (TCE)	ND	13.0	14.0	93	12.2	14.0	88	62-119	6	40			
Bromodichloromethane	ND	12.2	14.0	87	11.9	14.0	85	75-118	2	40			
Toluene	ND	13.7	14.0	98	13.3	14.0	95	67-123	3	40			
1,1,2-Trichloroethane	ND	15.7	14.0	113	14.7	14.0	105	74-113	7	40			
2-Hexanone	ND	73.1	69.8	105	73.1	69.8	105	58-118	0	40			
Chlorobenzene	ND	14.0	14.0	100	13.4	14.0	96	70-115	4	40			
Ethylbenzene	ND	14.2	14.0	102	13.6	14.0	98	68-121	4	40			
1,2,3-Trichloropropane	ND	16.2	14.0	116	15.7	14.0	112	29-169	3	40			
2-Chlorotoluene	ND	14.0	14.0	101	13.6	14.0	97	61-134	3	40			
1,2-Dichlorobenzene	ND	14.8	14.0	106	14.4	14.0	103	75-109	3	40			
Naphthalene	ND	19.0	14.0	136	19.0	14.0	136	44-163	0	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample
KWG1007159-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	0.395	1.00	40	32-164
Chloromethane	0.614	1.00	61	44-136
Vinyl Chloride	0.641	1.00	64	45-153
Bromomethane	1.18	1.00	118	29-171
Chloroethane	0.753	1.00	75	53-134
Trichlorofluoromethane	0.550	1.00	55	55-140
1,1-Dichloroethene	0.928	1.00	93	67-141
Acetone	4.57	5.00	91	38-136
Carbon Disulfide	1.77	2.00	88	69-129
Methylene Chloride	0.930	1.00	93	69-121
trans-1,2-Dichloroethene	0.892	1.00	89	76-128
1,1-Dichloroethane	0.836	1.00	84	70-124
2,2-Dichloropropane	0.756	1.00	76	74-133
cis-1,2-Dichloroethene	0.924	1.00	92	77-124
2-Butanone (MEK)	6.13	5.00	123	50-124
Bromochloromethane	0.956	1.00	96	73-117
Chloroform	0.923	1.00	92	73-125
1,1,1-Trichloroethane (TCA)	0.771	1.00	77	61-136
Carbon Tetrachloride	0.771	1.00	77	72-140
1,1-Dichloropropene	0.822	1.00	82	65-130
Benzene	0.887	1.00	89	70-134
1,2-Dichloroethane (EDC)	0.800	1.00	80	70-126
Trichloroethene (TCE)	0.886	1.00	89	75-125
1,2-Dichloropropane	0.933	1.00	93	73-121
Dibromomethane	0.968	1.00	97	68-123
Bromodichloromethane	0.855	1.00	86	76-128
cis-1,3-Dichloropropene	1.00	1.00	100	74-123
4-Methyl-2-pentanone (MIBK)	5.41	5.00	108	57-127
Toluene	0.943	1.00	94	74-118
trans-1,3-Dichloropropene	0.945	1.00	95	66-115
1,1,2-Trichloroethane	1.09	1.00	109	73-118
Tetrachloroethene (PCE)	0.882	1.00	88	69-123
2-Hexanone	5.22	5.00	104	54-123
1,3-Dichloropropane	1.04	1.00	104	70-121
Dibromochloromethane	0.978	1.00	98	74-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007449
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample

KWG1007159-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.07	1.00	107	70-122
Chlorobenzene	0.981	1.00	98	72-115
Ethylbenzene	0.985	1.00	99	72-121
1,1,1,2-Tetrachloroethane	1.00	1.00	100	71-120
m,p-Xylenes	2.02	2.00	101	74-124
o-Xylene	1.03	1.00	103	73-123
Styrene	1.08	1.00	108	77-122
Bromoform	1.08	1.00	108	75-121
Isopropylbenzene	1.02	1.00	102	68-121
1,1,2,2-Tetrachloroethane	1.18	1.00	118	63-127
Bromobenzene	1.06	1.00	106	66-118
n-Propylbenzene	0.985	1.00	99	70-131
1,2,3-Trichloropropane	1.14	1.00	114	68-122
2-Chlorotoluene	0.982	1.00	98	68-127
1,3,5-Trimethylbenzene	1.01	1.00	101	68-129
4-Chlorotoluene	0.987	1.00	99	66-121
tert-Butylbenzene	1.00	1.00	100	71-127
1,2,4-Trimethylbenzene	1.02	1.00	102	69-123
sec-Butylbenzene	0.947	1.00	95	70-132
4-Isopropyltoluene	1.00	1.00	100	68-127
1,3-Dichlorobenzene	1.03	1.00	103	69-117
1,4-Dichlorobenzene	1.03	1.00	103	69-114
n-Butylbenzene	0.981	1.00	98	69-126
1,2-Dichlorobenzene	1.06	1.00	106	75-114
1,2-Dibromo-3-chloropropane	1.20	1.00	120	46-132
1,2,4-Trichlorobenzene	1.15	1.00	115	69-119
Hexachlorobutadiene	0.828	1.00	83	67-128
Naphthalene	1.35	1.00	135 *	59-127
1,2,3-Trichlorobenzene	1.27	1.00	127 *	66-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-072010-RP-VSRAP-012	Units:	ug/Kg
Lab Code:	K1007526-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1221	ND U	110	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1232	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1242	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1248	1600 D	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1254	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1260	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	124	35-133	07/22/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-072010-RP-VSRAP-013	Units:	ug/Kg
Lab Code:	K1007526-002	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	11	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	5.5	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	96	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-072010-RP-VSRAP-014	Units:	ug/Kg
Lab Code:	K1007526-003	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	12	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	35	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	6.0	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	92	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-072010-RP-VSRAP-015	Units:	ug/Kg
Lab Code:	K1007526-004	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1221	ND U	110	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1232	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1242	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1248	2200 D	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1254	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	
Aroclor 1260	ND U	54	13	10	07/21/10	07/22/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	117	35-133	07/22/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-072010-RP-VSRAP-016 **Units:** ug/Kg
Lab Code: K1007526-005 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1221	ND U	11	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1232	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1242	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1248	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1254	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1260	ND U	5.4	1.3	1	07/21/10	07/22/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	110	35-133	07/22/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-072010-RP-VSRAP-017	Units:	ug/Kg
Lab Code:	K1007526-006	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1221	ND U	11	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1232	ND U	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1242	ND U	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1248	55	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1254	ND U	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	
Aroclor 1260	ND U	5.1	1.3	1	07/21/10	07/22/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	99	35-133	07/22/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1007133-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	10	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	99	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-072010-RP-VSRAP-	K1007526-001	124 D
SO-056393-072010-RP-VSRAP-	K1007526-002	96
SO-056393-072010-RP-VSRAP-	K1007526-003	92
SO-056393-072010-RP-VSRAP-	K1007526-004	117 D
SO-056393-072010-RP-VSRAP-	K1007526-005	110
SO-056393-072010-RP-VSRAP-	K1007526-006	99
Method Blank	KWG1007133-4	99
Batch QC	K1007472-001	81 D
Batch QCMS	KWG1007133-1	112 D
Batch QCDMS	KWG1007133-2	127 D
Lab Control Sample	KWG1007133-3	101

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1007472-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1007133

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit			
		KWG1007133-1			KWG1007133-2								
		Matrix Spike			Duplicate Matrix Spike								
Analyte Name	Sample Result	Result	Expected	%Rec	Result	Expected	%Rec						
Aroclor 1016	ND	5670	117	4851 *	5260	117	4485 *	27-174	7	40			
Aroclor 1260	ND	1680	117	1439 *	1480	117	1261 *	20-185	13	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1007133

Lab Control Sample

KWG1007133-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	188	200	94	48-121
Aroclor 1260	208	200	104	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-012	Units:	mg/Kg
Lab Code:	K1007526-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.052	0.014	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.052	0.0055	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.052	0.0078	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.052	0.0094	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.052	0.017	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.052	0.013	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.052	0.0077	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.1	0.35	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.052	0.011	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.21	0.018	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.052	0.0095	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.052	0.0080	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.052	0.0063	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.052	0.0070	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.1	0.20	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.052	0.017	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.052	0.0067	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.052	0.0078	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.052	0.010	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.052	0.0093	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.052	0.0056	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.052	0.0083	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.052	0.011	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.052	0.0099	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.052	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.052	0.0095	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.052	0.019	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.1	0.27	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.052	0.0054	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.052	0.0071	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.052	0.015	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.052	0.0069	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.1	0.28	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-012	Units:	mg/Kg
Lab Code:	K1007526-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.052	0.015	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.052	0.015	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.21	0.011	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.052	0.012	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.052	0.0052	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.052	0.012	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.052	0.0095	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.052	0.0077	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.052	0.013	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.052	0.017	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.21	0.0095	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.052	0.017	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.21	0.013	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.21	0.055	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.052	0.021	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.21	0.011	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.21	0.0093	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.21	0.014	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.21	0.0055	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.21	0.0072	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.21	0.0050	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.21	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.052	0.011	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.052	0.013	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.21	0.044	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.052	0.013	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.21	0.021	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.21	0.010	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.21	0.012	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.21	0.0092	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.21	0.012	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-012 **Units:** mg/Kg
Lab Code: K1007526-001 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-013	Units:	mg/Kg
Lab Code:	K1007526-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.051	0.014	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.051	0.0054	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.051	0.0076	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.051	0.0091	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.051	0.017	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.051	0.013	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.051	0.0075	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.1	0.34	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.051	0.011	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.21	0.018	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.051	0.0092	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.051	0.0078	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.051	0.0061	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.051	0.0068	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.1	0.20	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.051	0.017	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.051	0.0065	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.051	0.0076	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.051	0.0097	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.051	0.0090	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.051	0.0055	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.051	0.0081	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.051	0.011	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.051	0.0096	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.051	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.051	0.0092	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.051	0.019	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.1	0.27	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.051	0.0053	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.051	0.0069	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.051	0.015	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.051	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.1	0.28	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-013	Units:	mg/Kg
Lab Code:	K1007526-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.051	0.015	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.051	0.015	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.21	0.011	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.051	0.012	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.051	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.051	0.012	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.051	0.0092	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.051	0.0075	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.051	0.013	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.051	0.017	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.21	0.0092	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.051	0.017	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.21	0.013	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.21	0.054	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.051	0.021	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.21	0.011	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.21	0.0090	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.21	0.014	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.21	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.21	0.0070	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.21	0.0049	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.21	0.0052	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.051	0.011	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.051	0.013	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.21	0.043	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.051	0.013	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.21	0.021	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.21	0.0097	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.21	0.012	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.21	0.0089	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.21	0.012	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-013 **Units:** mg/Kg
Lab Code: K1007526-002 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-014	Units:	mg/Kg
Lab Code:	K1007526-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.092	0.024	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.092	0.0098	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.092	0.014	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.092	0.017	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.092	0.030	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.092	0.022	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.092	0.014	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	3.7	0.61	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.092	0.019	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.37	0.032	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.092	0.017	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.092	0.015	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.092	0.011	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.092	0.013	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	3.7	0.35	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.092	0.030	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.092	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.092	0.014	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.092	0.018	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.092	0.017	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.092	0.0099	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.092	0.015	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.092	0.019	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.092	0.018	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.092	0.028	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.092	0.017	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.092	0.033	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	3.7	0.48	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.092	0.0096	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.092	0.013	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.092	0.026	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.092	0.013	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	3.7	0.50	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-014	Units:	mg/Kg
Lab Code:	K1007526-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.092	0.026	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.092	0.026	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.37	0.019	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.092	0.021	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.092	0.0092	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.092	0.021	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.092	0.017	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.092	0.014	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.092	0.022	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.092	0.030	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.37	0.017	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.092	0.030	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.37	0.022	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.37	0.098	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.092	0.037	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.37	0.019	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.37	0.017	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.37	0.024	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.37	0.0098	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.37	0.013	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.37	0.0088	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.37	0.0094	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.092	0.019	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.092	0.022	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.37	0.077	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.092	0.022	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.37	0.037	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.37	0.018	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.37	0.021	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.37	0.017	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.37	0.021	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-014 **Units:** mg/Kg
Lab Code: K1007526-003 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	68-119	07/21/10	Acceptable
Toluene-d8	113	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-015	Units:	mg/Kg
Lab Code:	K1007526-004	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.061	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.061	0.0064	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.061	0.0091	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.061	0.011	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.061	0.020	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.061	0.015	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.061	0.0090	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.5	0.40	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.061	0.013	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.25	0.021	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.061	0.011	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.061	0.0093	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.061	0.0073	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.061	0.0081	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.5	0.23	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.061	0.020	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.061	0.0078	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.061	0.0091	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.061	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.061	0.011	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.061	0.0066	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.061	0.0097	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.061	0.013	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.061	0.012	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.061	0.019	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.061	0.011	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.061	0.022	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.5	0.32	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.061	0.0063	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.061	0.0082	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.061	0.017	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.061	0.0080	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.5	0.33	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-015	Units:	mg/Kg
Lab Code:	K1007526-004	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.061	0.017	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.061	0.017	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.25	0.013	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.061	0.014	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.061	0.0061	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.061	0.014	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.061	0.011	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.061	0.0090	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.061	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.061	0.020	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.25	0.011	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.061	0.020	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.25	0.015	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.25	0.064	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.061	0.025	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.25	0.013	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.25	0.011	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.25	0.016	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.25	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.25	0.0084	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.25	0.0058	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.25	0.0062	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.061	0.013	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.061	0.015	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.25	0.051	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.061	0.015	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.25	0.025	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.25	0.012	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.25	0.014	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.25	0.011	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.25	0.014	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-015 **Units:** mg/Kg
Lab Code: K1007526-004 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	68-119	07/21/10	Acceptable
Toluene-d8	113	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-016	Units:	mg/Kg
Lab Code:	K1007526-005	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.045	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.045	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.045	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.045	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.045	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.045	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.045	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	1.8	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.045	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.18	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.045	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.045	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.045	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.045	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	1.8	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.045	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.045	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.045	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.045	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.045	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.045	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.045	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.045	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.045	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.045	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.045	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.045	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	1.8	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.045	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.045	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.045	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.045	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	1.8	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-016	Units:	mg/Kg
Lab Code:	K1007526-005	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.045	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.045	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.18	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.045	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.045	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.045	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.045	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.045	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.045	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.045	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.18	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.045	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.18	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.18	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.045	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.18	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.18	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.18	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.18	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.18	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.18	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.18	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.045	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.045	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.18	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.045	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.18	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.18	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.18	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.18	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.18	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-016 **Units:** mg/Kg
Lab Code: K1007526-005 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-017	Units:	mg/Kg
Lab Code:	K1007526-006	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.068	0.018	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.068	0.0072	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.068	0.022	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.068	0.017	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.8	0.45	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.068	0.014	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.28	0.024	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.068	0.0082	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.068	0.0091	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.8	0.26	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.068	0.022	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.068	0.0087	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.068	0.014	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.068	0.0074	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.068	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.068	0.021	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.068	0.025	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.8	0.36	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.068	0.0071	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.068	0.0093	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.068	0.019	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.068	0.0090	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.8	0.37	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name:	SO-056393-072010-RP-VSRAP-017	Units:	mg/Kg
Lab Code:	K1007526-006	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.068	0.019	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.068	0.019	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.28	0.014	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.068	0.015	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.068	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.068	0.015	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.068	0.013	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.068	0.011	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.068	0.017	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.068	0.022	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.28	0.013	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.068	0.022	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.28	0.017	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.28	0.072	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.068	0.028	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.28	0.014	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.28	0.013	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.28	0.018	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.28	0.0072	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.28	0.0094	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.28	0.0066	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.28	0.0070	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.068	0.014	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.068	0.017	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.28	0.057	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.068	0.017	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.28	0.028	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.28	0.014	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.28	0.015	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.28	0.012	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.28	0.015	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: 07/20/2010
Date Received: 07/21/2010

Volatile Organic Compounds

Sample Name: SO-056393-072010-RP-VSRAP-017 **Units:** mg/Kg
Lab Code: K1007526-006 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	68-119	07/21/10	Acceptable
Toluene-d8	112	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	94	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	0.019	J	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	0.011	J	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG1007159-4 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	68-119	07/21/10	Acceptable
Toluene-d8	111	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526**Surrogate Recovery Summary
Volatile Organic Compounds**

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: PERCENT
Level: Med

Sample Name	Lab Code	Sur1	Sur2	Sur3
SO-056393-072010-RP-VSRAP-	K1007526-005	93	112	96
SO-056393-072010-RP-VSRAP-	K1007526-006	91	112	94
Method Blank	KWG1007159-4	98	111	96
Batch QC	K1007393-003	94	111	97
Batch QCMS	KWG1007159-1	96	110	99
Batch QCDMS	KWG1007159-2	95	112	100
Lab Control Sample	KWG1007159-3	96	110	101
SO-056393-072010-RP-VSRAP-	K1007526-001	93	112	96
SO-056393-072010-RP-VSRAP-	K1007526-002	93	112	96
SO-056393-072010-RP-VSRAP-	K1007526-003	93	113	96
SO-056393-072010-RP-VSRAP-	K1007526-004	92	113	96

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	68-119
Sur2 = Toluene-d8	81-124
Sur3 = 4-Bromofluorobenzene	64-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	Batch QC	Units:	mg/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B	Extraction Lot:	KWG1007159

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit			
		KGW1007159-1			KGW1007159-2								
		Matrix Spike			Duplicate Matrix Spike								
		Result	Expected	%Rec	Result	Expected	%Rec						
Vinyl Chloride	ND	9.17	14.0	66	8.66	14.0	62	44-140	6	40			
1,1-Dichloroethene	ND	13.6	14.0	97	12.6	14.0	90	61-132	7	40			
Chloroform	ND	12.4	14.0	89	11.8	14.0	84	62-113	5	40			
Carbon Tetrachloride	ND	11.4	14.0	81	10.6	14.0	76	56-124	7	40			
Benzene	ND	12.8	14.0	92	12.3	14.0	88	70-120	4	40			
Trichloroethene (TCE)	ND	13.0	14.0	93	12.2	14.0	88	62-119	6	40			
Bromodichloromethane	ND	12.2	14.0	87	11.9	14.0	85	75-118	2	40			
Toluene	ND	13.7	14.0	98	13.3	14.0	95	67-123	3	40			
1,1,2-Trichloroethane	ND	15.7	14.0	113	14.7	14.0	105	74-113	7	40			
2-Hexanone	ND	73.1	69.8	105	73.1	69.8	105	58-118	0	40			
Chlorobenzene	ND	14.0	14.0	100	13.4	14.0	96	70-115	4	40			
Ethylbenzene	ND	14.2	14.0	102	13.6	14.0	98	68-121	4	40			
1,2,3-Trichloropropane	ND	16.2	14.0	116	15.7	14.0	112	29-169	3	40			
2-Chlorotoluene	ND	14.0	14.0	101	13.6	14.0	97	61-134	3	40			
1,2-Dichlorobenzene	ND	14.8	14.0	106	14.4	14.0	103	75-109	3	40			
Naphthalene	ND	19.0	14.0	136	19.0	14.0	136	44-163	0	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample

KWG1007159-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	0.395	1.00	40	32-164
Chloromethane	0.614	1.00	61	44-136
Vinyl Chloride	0.641	1.00	64	45-153
Bromomethane	1.18	1.00	118	29-171
Chloroethane	0.753	1.00	75	53-134
Trichlorofluoromethane	0.550	1.00	55	55-140
1,1-Dichloroethene	0.928	1.00	93	67-141
Acetone	4.57	5.00	91	38-136
Carbon Disulfide	1.77	2.00	88	69-129
Methylene Chloride	0.930	1.00	93	69-121
trans-1,2-Dichloroethene	0.892	1.00	89	76-128
1,1-Dichloroethane	0.836	1.00	84	70-124
2,2-Dichloropropane	0.756	1.00	76	74-133
cis-1,2-Dichloroethene	0.924	1.00	92	77-124
2-Butanone (MEK)	6.13	5.00	123	50-124
Bromochloromethane	0.956	1.00	96	73-117
Chloroform	0.923	1.00	92	73-125
1,1,1-Trichloroethane (TCA)	0.771	1.00	77	61-136
Carbon Tetrachloride	0.771	1.00	77	72-140
1,1-Dichloropropene	0.822	1.00	82	65-130
Benzene	0.887	1.00	89	70-134
1,2-Dichloroethane (EDC)	0.800	1.00	80	70-126
Trichloroethene (TCE)	0.886	1.00	89	75-125
1,2-Dichloropropane	0.933	1.00	93	73-121
Dibromomethane	0.968	1.00	97	68-123
Bromodichloromethane	0.855	1.00	86	76-128
cis-1,3-Dichloropropene	1.00	1.00	100	74-123
4-Methyl-2-pentanone (MIBK)	5.41	5.00	108	57-127
Toluene	0.943	1.00	94	74-118
trans-1,3-Dichloropropene	0.945	1.00	95	66-115
1,1,2-Trichloroethane	1.09	1.00	109	73-118
Tetrachloroethene (PCE)	0.882	1.00	88	69-123
2-Hexanone	5.22	5.00	104	54-123
1,3-Dichloropropane	1.04	1.00	104	70-121
Dibromochloromethane	0.978	1.00	98	74-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56393-07-004
Sample Matrix: Soil

Service Request: K1007526
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample

KWG1007159-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.07	1.00	107	70-122
Chlorobenzene	0.981	1.00	98	72-115
Ethylbenzene	0.985	1.00	99	72-121
1,1,1,2-Tetrachloroethane	1.00	1.00	100	71-120
m,p-Xylenes	2.02	2.00	101	74-124
o-Xylene	1.03	1.00	103	73-123
Styrene	1.08	1.00	108	77-122
Bromoform	1.08	1.00	108	75-121
Isopropylbenzene	1.02	1.00	102	68-121
1,1,2,2-Tetrachloroethane	1.18	1.00	118	63-127
Bromobenzene	1.06	1.00	106	66-118
n-Propylbenzene	0.985	1.00	99	70-131
1,2,3-Trichloropropane	1.14	1.00	114	68-122
2-Chlorotoluene	0.982	1.00	98	68-127
1,3,5-Trimethylbenzene	1.01	1.00	101	68-129
4-Chlorotoluene	0.987	1.00	99	66-121
tert-Butylbenzene	1.00	1.00	100	71-127
1,2,4-Trimethylbenzene	1.02	1.00	102	69-123
sec-Butylbenzene	0.947	1.00	95	70-132
4-Isopropyltoluene	1.00	1.00	100	68-127
1,3-Dichlorobenzene	1.03	1.00	103	69-117
1,4-Dichlorobenzene	1.03	1.00	103	69-114
n-Butylbenzene	0.981	1.00	98	69-126
1,2-Dichlorobenzene	1.06	1.00	106	75-114
1,2-Dibromo-3-chloropropane	1.20	1.00	120	46-132
1,2,4-Trichlorobenzene	1.15	1.00	115	69-119
Hexachlorobutadiene	0.828	1.00	83	67-128
Naphthalene	1.35	1.00	135 *	59-127
1,2,3-Trichlorobenzene	1.27	1.00	127 *	66-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: 12th Street LF
Fax: 734-453-5201	Project Number: 056393-07-004
Email: pwiseman@crawbld.com	

PAGE OF

Laboratory:	Columbia Analytical
Laboratory Location:	Kelso, WA
Laboratory Contact:	Greg Salata
Requested Due Date:	TAT: 24-hr
QA/QC Requirements:	AS per SSOW

ID # **Nº D 3862**

SSOW Ref. Code:
056393 - 07

Analysis and Method

K1007393

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for
Additional Codes

Sample Identification:

1. TB - 056393-071610-CB-001
2. TB - 056393-071610-CB-002
3. SO - 056393-071610-CB-VSRAP-010

Sample ID	Matrix Code	Date Collected	Time Collected	# Containers	Preservative				Other: methanol	VOCs	PCBs	Remarks/Lab ID
					HCl	H ₂ SO ₄	HNO ₃	NaOH				
1. TB - 056393-071610-CB-001	SOG	7/16/10	—	1					1	X		
2. TB - 056393-071610-CB-002	SOG	7/16/10	—	1					1	X		
3. SO - 056393-071610-CB-VSRAP-010	SO	7/16/10	1420	3 2					1	X	X	
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												
TOTAL NUMBER OF CONTAINERS				S								

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	Connie Bondy / CRA	7/16/10	1800	JL 21/CAS	7-17-10	840
AIRBILL NO. 8714 7062 2106							

Sample Condition

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

Sampler Name:
Connie Bondy
Sampler Signature:
Connie Bondy

Date:
7/16/10

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393

Total Solids

Prep Method: NONE Units: PERCENT
Analysis Method: 160.3M Basis: Wet
Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
SO-056393-071610-CB-VSRAP-010	K1007393-003	07/16/2010	07/17/2010	07/17/2010	15.6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
 Project: 12th Street LF/56394-07-004
 Sample Matrix: Soil

Service Request: K1007393
 Date Collected: 07/16/2010
 Date Received: 07/17/2010
 Date Analyzed: 07/17/2010

Duplicate Sample Summary
Total Solids

Prep Method: NONE Units: PERCENT
 Analysis Method: 160.3M Basis: Wet

Test Notes:

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
SO-056393-071610-CB-VSRAP-01	K1007393-003	15.6	15.7	15.7	<1	

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004

Service Request: K1007393

**Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)**

Sample Name	Lab Code	Date Collected	Date Received
SO-056393-071610-CB-VSRAP-	K1007393-003	07/16/2010	07/17/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Loren S. Portwood

Name: Loren Portwood

Date: 7/20/10

Title: Scientist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorporated
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: SO-056393-071610-CB-VSRAP-010 **Units:** ug/Kg
Lab Code: K1007393-003 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1221	ND U	65	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1232	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1242	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1248	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1254	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1260	ND U	33	4.2	1	07/19/10	07/19/10	KWG1007041	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	108	35-133	07/19/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank **Units:** ug/Kg
Lab Code: KWG1007041-4 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: 8082

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1221	ND U	10	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1232	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1242	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1248	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1254	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	
Aroclor 1260	ND U	5.0	1.3	1	07/19/10	07/19/10	KWG1007041	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	97	35-133	07/19/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)****Extraction Method:** EPA 3550B**Units:** PERCENT**Analysis Method:** 8082**Level:** Low

Sample Name	Lab Code	Sur1
SO-056393-071610-CB-VSRAP-	K1007393-003	108
Method Blank	KWG1007041-4	97
Batch QC	K1007334-002	102
Batch QCMS	KWG1007041-1	109
Batch QCDMS	KWG1007041-2	118
Lab Control Sample	KWG1007041-3	109

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1007334-002	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1007041

Analyte Name	Sample Result	Batch QCMS KWG1007041-1			Batch QCDMS KWG1007041-2			Duplicate Matrix Spike		%Rec Limits	RPD	RPD Limit
		Matrix Spike						Result	Expected	%Rec		
		Result	Expected	%Rec	Result	Expected	%Rec					
Aroclor 1016	ND	214	199	108	231	198	117	27-174	7	40		
Aroclor 1260	ND	218	199	109	232	198	117	20-185	7	40		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry

Level: Low

Extraction Lot: KWG1007041

Lab Control Sample

KWG1007041-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	221	200	111	48-121
Aroclor 1260	224	200	112	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010
Time Analyzed: 12:48

**Method Blank Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name: Method Blank
Lab Code: KWG1007041-4
Extraction Method: EPA 3550B
Analysis Method: 8082

File ID: J:\GC22\DATA\071910.B\0716F016.D
Instrument ID: GC22.i
Level: Low
Extraction Lot: KWG1007041

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1007334-002	J:\GC22\DATA\071910.B\0716F006.D	07/19/10	08:44
Batch QCMS	KWG1007041-1	J:\GC22\DATA\071910.B\0716F007.D	07/19/10	09:08
Batch QCDMS	KWG1007041-2	J:\GC22\DATA\071910.B\0716F008.D	07/19/10	09:32
SO-056393-071610-CB-VSRAP-010	K1007393-003	J:\GC22\DATA\071910.B\0716F013.D	07/19/10	11:35
Lab Control Sample	KWG1007041-3	J:\GC22\DATA\071910.B\0716F015.D	07/19/10	12:24

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Sediment

Service Request: K1007393
Date Extracted: 07/19/2010
Date Analyzed: 07/19/2010
Time Analyzed: 12:24

**Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name: Lab Control Sample
Lab Code: KWG1007041-3
Extraction Method: EPA 3550B
Analysis Method: 8082

File ID: J:\GC22\DATA\071910.B\0716F015.D
Instrument ID: GC22.i
Level: Low
Extraction Lot: KWG1007041

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1007334-002	J:\GC22\DATA\071910.B\0716F006.D	07/19/10	08:44
Batch QCMS	KWG1007041-1	J:\GC22\DATA\071910.B\0716F007.D	07/19/10	09:08
Batch QCDMS	KWG1007041-2	J:\GC22\DATA\071910.B\0716F008.D	07/19/10	09:32
SO-056393-071610-CB-VSRAP-010	K1007393-003	J:\GC22\DATA\071910.B\0716F013.D	07/19/10	11:35
Method Blank	KWG1007041-4	J:\GC22\DATA\071910.B\0716F016.D	07/19/10	12:48

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/563943-07-004
Sample Matrix: Soil

Service Request: K1007472
Date Collected: 07/19/2010
Date Received: 07/20/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071910-RP-002	Units:	ug/Kg
Lab Code:	K1007472-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	120	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	240	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	120	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	120	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	5700 D	120	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	120	26	20	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	120	26	20	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	81	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/563943-07-004
Sample Matrix: Soil

Service Request: K1007472
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1007133-4	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1221	ND U	10	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1232	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1242	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1248	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1254	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	
Aroclor 1260	ND U	5.0	1.3	1	07/21/10	07/21/10	KWG1007133	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	99	35-133	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/563943-07-004
Sample Matrix: Soil

Service Request: K1007472**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SO-056393-071910-RP-002	K1007472-001	81 D
Method Blank	KWG1007133-4	99
SO-056393-071910-RP-002MS	KWG1007133-1	112 D
SO-056393-071910-RP-002DMS	KWG1007133-2	127 D
Lab Control Sample	KWG1007133-3	101

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/563943-07-004
Sample Matrix: Soil

Service Request: K1007472
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	SO-056393-071910-RP-002	Units:	ug/Kg
Lab Code:	K1007472-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	8082	Extraction Lot:	KWG1007133

Analyte Name	Sample Result	SO-056393-071910-RP-002			SO-056393-071910-RP-002			%Rec Limits	RPD	RPD Limit			
		MS			DMS								
		KWG1007133-1			KWG1007133-2								
		Matrix Spike			Duplicate Matrix Spike								
Result	Expected	%Rec	Result	Expected	%Rec	Result	Expected	%Rec	RPD	RPD Limit			
ND	5670	117	4851 *	5260	117	4485 *	27-174	7	40				
ND	1680	117	1439 *	1480	117	1261 *	20-185	13	40				

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/563943-07-004
Sample Matrix: Soil

Service Request: K1007472
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Extraction Lot: KWG1007133

Lab Control Sample

KWG1007133-3

Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	188	200	94	48-121
Aroclor 1260	208	200	104	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071610-CB-001	Units:	mg/Kg
Lab Code:	K1007393-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071610-CB-001	Units:	mg/Kg
Lab Code:	K1007393-001	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name: TB-056393-071610-CB-001
Lab Code: K1007393-001

Units: mg/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	68-119	07/21/10	Acceptable
Toluene-d8	113	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	98	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071610-CB-002	Units:	mg/Kg
Lab Code:	K1007393-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	TB-056393-071610-CB-002	Units:	mg/Kg
Lab Code:	K1007393-002	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name: TB-056393-071610-CB-002 **Units:** mg/Kg
Lab Code: K1007393-002 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	68-119	07/21/10	Acceptable
Toluene-d8	111	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	97	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071610-CB-VSRAP-010	Units:	mg/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.70	0.19	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.70	0.075	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.70	0.11	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.70	0.13	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.70	0.23	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.70	0.17	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.70	0.11	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	28	4.7	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.70	0.14	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	2.8	0.24	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.70	0.13	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.70	0.11	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.70	0.084	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.70	0.094	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	28	2.7	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.70	0.23	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.70	0.090	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.70	0.11	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.70	0.14	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.70	0.13	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.70	0.076	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.70	0.12	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.70	0.14	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.70	0.14	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.70	0.21	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.70	0.13	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.70	0.26	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	28	3.7	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.70	0.073	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.70	0.095	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.70	0.20	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.70	0.093	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	28	3.8	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name:	SO-056393-071610-CB-VSRAP-010	Units:	mg/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.70	0.20	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.70	0.20	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	2.8	0.14	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.70	0.16	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.70	0.070	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.70	0.16	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.70	0.13	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.70	0.11	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.70	0.17	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.70	0.23	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	2.8	0.13	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.70	0.23	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	2.8	0.17	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	2.8	0.75	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.70	0.28	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	2.8	0.14	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	2.8	0.13	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	2.8	0.19	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	2.8	0.075	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	2.8	0.097	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	2.8	0.068	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	2.8	0.072	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.70	0.14	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.70	0.17	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	2.8	0.59	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.70	0.17	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	2.8	0.28	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	2.8	0.14	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	ND	U	2.8	0.16	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	ND	U	2.8	0.13	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	2.8	0.16	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: 07/16/2010
Date Received: 07/17/2010

Volatile Organic Compounds

Sample Name: SO-056393-071610-CB-VSRAP-010 **Units:** mg/Kg
Lab Code: K1007393-003 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	68-119	07/21/10	Acceptable
Toluene-d8	111	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	97	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.050	0.013	1	07/21/10	07/21/10	KWG1007159	
Chloromethane	ND	U	0.050	0.0053	1	07/21/10	07/21/10	KWG1007159	
Vinyl Chloride	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Bromomethane	ND	U	0.050	0.0090	1	07/21/10	07/21/10	KWG1007159	
Chloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Trichlorofluoromethane	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Acetone	ND	U	2.0	0.33	1	07/21/10	07/21/10	KWG1007159	
Carbon Disulfide	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
Methylene Chloride	ND	U	0.20	0.017	1	07/21/10	07/21/10	KWG1007159	
trans-1,2-Dichloroethene	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloroethane	ND	U	0.050	0.0077	1	07/21/10	07/21/10	KWG1007159	
2,2-Dichloropropane	ND	U	0.050	0.0060	1	07/21/10	07/21/10	KWG1007159	
cis-1,2-Dichloroethene	ND	U	0.050	0.0067	1	07/21/10	07/21/10	KWG1007159	
2-Butanone (MEK)	ND	U	2.0	0.19	1	07/21/10	07/21/10	KWG1007159	
Bromochloromethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Chloroform	ND	U	0.050	0.0064	1	07/21/10	07/21/10	KWG1007159	
1,1,1-Trichloroethane (TCA)	ND	U	0.050	0.0075	1	07/21/10	07/21/10	KWG1007159	
Carbon Tetrachloride	ND	U	0.050	0.0096	1	07/21/10	07/21/10	KWG1007159	
1,1-Dichloropropene	ND	U	0.050	0.0089	1	07/21/10	07/21/10	KWG1007159	
Benzene	ND	U	0.050	0.0054	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloroethane (EDC)	ND	U	0.050	0.0080	1	07/21/10	07/21/10	KWG1007159	
Trichloroethene (TCE)	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichloropropane	ND	U	0.050	0.0095	1	07/21/10	07/21/10	KWG1007159	
Dibromomethane	ND	U	0.050	0.015	1	07/21/10	07/21/10	KWG1007159	
Bromodichloromethane	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
cis-1,3-Dichloropropene	ND	U	0.050	0.018	1	07/21/10	07/21/10	KWG1007159	
4-Methyl-2-pentanone (MIBK)	ND	U	2.0	0.26	1	07/21/10	07/21/10	KWG1007159	
Toluene	ND	U	0.050	0.0052	1	07/21/10	07/21/10	KWG1007159	
trans-1,3-Dichloropropene	ND	U	0.050	0.0068	1	07/21/10	07/21/10	KWG1007159	
1,1,2-Trichloroethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Tetrachloroethene (PCE)	ND	U	0.050	0.0066	1	07/21/10	07/21/10	KWG1007159	
2-Hexanone	ND	U	2.0	0.27	1	07/21/10	07/21/10	KWG1007159	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg
Lab Code:	KWG1007159-4	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
Dibromochloromethane	ND	U	0.050	0.014	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromoethane (EDB)	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
Chlorobenzene	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
Ethylbenzene	ND	U	0.050	0.0050	1	07/21/10	07/21/10	KWG1007159	
1,1,1,2-Tetrachloroethane	ND	U	0.050	0.011	1	07/21/10	07/21/10	KWG1007159	
m,p-Xylenes	ND	U	0.050	0.0091	1	07/21/10	07/21/10	KWG1007159	
o-Xylene	ND	U	0.050	0.0074	1	07/21/10	07/21/10	KWG1007159	
Styrene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
Bromoform	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Isopropylbenzene	ND	U	0.20	0.0091	1	07/21/10	07/21/10	KWG1007159	
1,1,2,2-Tetrachloroethane	ND	U	0.050	0.016	1	07/21/10	07/21/10	KWG1007159	
Bromobenzene	ND	U	0.20	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Propylbenzene	ND	U	0.20	0.053	1	07/21/10	07/21/10	KWG1007159	
1,2,3-Trichloropropane	ND	U	0.050	0.020	1	07/21/10	07/21/10	KWG1007159	
2-Chlorotoluene	ND	U	0.20	0.010	1	07/21/10	07/21/10	KWG1007159	
1,3,5-Trimethylbenzene	ND	U	0.20	0.0089	1	07/21/10	07/21/10	KWG1007159	
4-Chlorotoluene	ND	U	0.20	0.013	1	07/21/10	07/21/10	KWG1007159	
tert-Butylbenzene	ND	U	0.20	0.0053	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trimethylbenzene	ND	U	0.20	0.0069	1	07/21/10	07/21/10	KWG1007159	
sec-Butylbenzene	ND	U	0.20	0.0048	1	07/21/10	07/21/10	KWG1007159	
4-Isopropyltoluene	ND	U	0.20	0.0051	1	07/21/10	07/21/10	KWG1007159	
1,3-Dichlorobenzene	ND	U	0.050	0.010	1	07/21/10	07/21/10	KWG1007159	
1,4-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
n-Butylbenzene	ND	U	0.20	0.042	1	07/21/10	07/21/10	KWG1007159	
1,2-Dichlorobenzene	ND	U	0.050	0.012	1	07/21/10	07/21/10	KWG1007159	
1,2-Dibromo-3-chloropropane	ND	U	0.20	0.020	1	07/21/10	07/21/10	KWG1007159	
1,2,4-Trichlorobenzene	ND	U	0.20	0.0096	1	07/21/10	07/21/10	KWG1007159	
Hexachlorobutadiene	0.019	J	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	
Naphthalene	0.011	J	0.20	0.0088	1	07/21/10	07/21/10	KWG1007159	*
1,2,3-Trichlorobenzene	ND	U	0.20	0.011	1	07/21/10	07/21/10	KWG1007159	*

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG1007159-4 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	68-119	07/21/10	Acceptable
Toluene-d8	111	81-124	07/21/10	Acceptable
4-Bromofluorobenzene	96	64-132	07/21/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393**Surrogate Recovery Summary
Volatile Organic Compounds**

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: PERCENT
Level: Med

Sample Name	Lab Code	Sur1	Sur2	Sur3
SO-056393-071610-CB-VSRAP-	KWG1007159-1	96	110	99
SO-056393-071610-CB-VSRAP-	KWG1007159-2	95	112	100
Lab Control Sample	KWG1007159-3	96	110	101
TB-056393-071610-CB-001	K1007393-001	96	113	98
TB-056393-071610-CB-002	K1007393-002	94	111	97
SO-056393-071610-CB-VSRAP-	K1007393-003	94	111	97
Method Blank	KWG1007159-4	98	111	96

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	68-119
Sur2 = Toluene-d8	81-124
Sur3 = 4-Bromofluorobenzene	64-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	SO-056393-071610-CB-VSRAP-010	Units:	mg/Kg
Lab Code:	K1007393-003	Basis:	Dry
Extraction Method:	EPA 5035A/5030B	Level:	Med
Analysis Method:	8260B	Extraction Lot:	KWG1007159

SO-056393-071610-CB-VS	RAP-010MS	KWG1007159-1	SO-056393-071610-CB-VS	RAP-010DMS	KWG1007159-2
------------------------	-----------	--------------	------------------------	------------	--------------

Analyte Name	Sample Result	Matrix Spike			Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	9.17	14.0	66	8.66	14.0	62	44-140	6	40
1,1-Dichloroethene	ND	13.6	14.0	97	12.6	14.0	90	61-132	7	40
Chloroform	ND	12.4	14.0	89	11.8	14.0	84	62-113	5	40
Carbon Tetrachloride	ND	11.4	14.0	81	10.6	14.0	76	56-124	7	40
Benzene	ND	12.8	14.0	92	12.3	14.0	88	70-120	4	40
Trichloroethene (TCE)	ND	13.0	14.0	93	12.2	14.0	88	62-119	6	40
Bromodichloromethane	ND	12.2	14.0	87	11.9	14.0	85	75-118	2	40
Toluene	ND	13.7	14.0	98	13.3	14.0	95	67-123	3	40
1,1,2-Trichloroethane	ND	15.7	14.0	113	14.7	14.0	105	74-113	7	40
2-Hexanone	ND	73.1	69.8	105	73.1	69.8	105	58-118	0	40
Chlorobenzene	ND	14.0	14.0	100	13.4	14.0	96	70-115	4	40
Ethylbenzene	ND	14.2	14.0	102	13.6	14.0	98	68-121	4	40
1,2,3-Trichloropropane	ND	16.2	14.0	116	15.7	14.0	112	29-169	3	40
2-Chlorotoluene	ND	14.0	14.0	101	13.6	14.0	97	61-134	3	40
1,2-Dichlorobenzene	ND	14.8	14.0	106	14.4	14.0	103	75-109	3	40
Naphthalene	ND	19.0	14.0	136	19.0	14.0	136	44-163	0	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample

KWG1007159-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	0.395	1.00	40	32-164
Chloromethane	0.614	1.00	61	44-136
Vinyl Chloride	0.641	1.00	64	45-153
Bromomethane	1.18	1.00	118	29-171
Chloroethane	0.753	1.00	75	53-134
Trichlorofluoromethane	0.550	1.00	55	55-140
1,1-Dichloroethene	0.928	1.00	93	67-141
Acetone	4.57	5.00	91	38-136
Carbon Disulfide	1.77	2.00	88	69-129
Methylene Chloride	0.930	1.00	93	69-121
trans-1,2-Dichloroethene	0.892	1.00	89	76-128
1,1-Dichloroethane	0.836	1.00	84	70-124
2,2-Dichloropropane	0.756	1.00	76	74-133
cis-1,2-Dichloroethene	0.924	1.00	92	77-124
2-Butanone (MEK)	6.13	5.00	123	50-124
Bromochloromethane	0.956	1.00	96	73-117
Chloroform	0.923	1.00	92	73-125
1,1,1-Trichloroethane (TCA)	0.771	1.00	77	61-136
Carbon Tetrachloride	0.771	1.00	77	72-140
1,1-Dichloropropene	0.822	1.00	82	65-130
Benzene	0.887	1.00	89	70-134
1,2-Dichloroethane (EDC)	0.800	1.00	80	70-126
Trichloroethene (TCE)	0.886	1.00	89	75-125
1,2-Dichloropropane	0.933	1.00	93	73-121
Dibromomethane	0.968	1.00	97	68-123
Bromodichloromethane	0.855	1.00	86	76-128
cis-1,3-Dichloropropene	1.00	1.00	100	74-123
4-Methyl-2-pentanone (MIBK)	5.41	5.00	108	57-127
Toluene	0.943	1.00	94	74-118
trans-1,3-Dichloropropene	0.945	1.00	95	66-115
1,1,2-Trichloroethane	1.09	1.00	109	73-118
Tetrachloroethene (PCE)	0.882	1.00	88	69-123
2-Hexanone	5.22	5.00	104	54-123
1,3-Dichloropropane	1.04	1.00	104	70-121
Dibromochloromethane	0.978	1.00	98	74-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Conestoga-Rovers & Associates, Incorpora
Project: 12th Street LF/56394-07-004
Sample Matrix: Soil

Service Request: K1007393
Date Extracted: 07/21/2010
Date Analyzed: 07/21/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035A/5030B
Analysis Method: 8260B

Units: mg/Kg
Basis: Dry
Level: Med

Extraction Lot: KWG1007159

Lab Control Sample

KWG1007159-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.07	1.00	107	70-122
Chlorobenzene	0.981	1.00	98	72-115
Ethylbenzene	0.985	1.00	99	72-121
1,1,1,2-Tetrachloroethane	1.00	1.00	100	71-120
m,p-Xylenes	2.02	2.00	101	74-124
o-Xylene	1.03	1.00	103	73-123
Styrene	1.08	1.00	108	77-122
Bromoform	1.08	1.00	108	75-121
Isopropylbenzene	1.02	1.00	102	68-121
1,1,2,2-Tetrachloroethane	1.18	1.00	118	63-127
Bromobenzene	1.06	1.00	106	66-118
n-Propylbenzene	0.985	1.00	99	70-131
1,2,3-Trichloropropane	1.14	1.00	114	68-122
2-Chlorotoluene	0.982	1.00	98	68-127
1,3,5-Trimethylbenzene	1.01	1.00	101	68-129
4-Chlorotoluene	0.987	1.00	99	66-121
tert-Butylbenzene	1.00	1.00	100	71-127
1,2,4-Trimethylbenzene	1.02	1.00	102	69-123
sec-Butylbenzene	0.947	1.00	95	70-132
4-Isopropyltoluene	1.00	1.00	100	68-127
1,3-Dichlorobenzene	1.03	1.00	103	69-117
1,4-Dichlorobenzene	1.03	1.00	103	69-114
n-Butylbenzene	0.981	1.00	98	69-126
1,2-Dichlorobenzene	1.06	1.00	106	75-114
1,2-Dibromo-3-chloropropane	1.20	1.00	120	46-132
1,2,4-Trichlorobenzene	1.15	1.00	115	69-119
Hexachlorobutadiene	0.828	1.00	83	67-128
Naphthalene	1.35	1.00	135 *	59-127
1,2,3-Trichlorobenzene	1.27	1.00	127 *	66-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ATTACHMENT D

COMPOSITE LEACHATE SAMPLE ANALYTICAL RESULTS



4425 Manchester

Road

Kalamazoo, MI 49001

Phone 269 381-9666

Fax 269 381-9698

www.karlabs.com

CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102986
Date Reported : 07/30/10
Date Activated : 07/28/10
Date Due : 07/30/10
Date Validated : 07/30/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 102986. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of **CRA Services**.

LABORATORY DETAIL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : 102986

Date Reported: 07/30/10

Project

Description: Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : "WB-056913-072710-CB-010"

Sampled By : CB of CRA Services

Date Received : 07/28/10

Sample Date : 07/27/10

Sample Type : aqueous

Sample Time : 1620

KAR Sample No. : 102986-01

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/29/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/29/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/29/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/29/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/29/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/29/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/29/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/29/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/29/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/29/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/29/10	DBL	
Zinc, total	0.13	mg/L	EPA 200.7	07/29/10	DBL	
COD	1470	mg/L	EPA 410.4	07/29/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/30/10	ALK	
Nitrogen, total kjeldahl	42.3	mg/L	EPA 351.2	07/29/10	JHB	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/28/10	GMB	
PH	6.5	S.U.	SM 4500-H B	07/28/10	HES	Sample received past holding time; result is approximate.
Phenols, total	0.19	mg/L	EPA 420.4	07/30/10	ALK	
Phosphorus, total (as P)	0.40	mg/L	SM 4500-P E,B5	07/29/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/28/10	ALK	
Suspended solids, total	131	mg/L	SM 2540 D	07/28/10	JHB	
Prior. Poll. volatiles	See below		EPA 624	07/28/10	JAR	
Prep, VOA	Completed		EPA 624	07/28/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/28/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/28/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/28/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/28/10	JAR	
Benzene	<1	ug/L	EPA 624	07/28/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/28/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102986**

Date Reported: **07/30/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : **"WB-056913-072710-CB-010"**

Sampled By : **CB of CRA Services**

Date Received : **07/28/10**

Sample Date : **07/27/10**

Sample Type : **aqueous**

Sample Time : **1620**

KAR Sample No. : **102986-01**

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Bromoform	<1	ug/L	EPA 624	07/28/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/28/10	JAR	
Carbon tetrachloride	<1	ug/L	EPA 624	07/28/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/28/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/28/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Ethylbenzene	4.8	ug/L	EPA 624	07/28/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/28/10	JAR	
Tetrachloroethene	3.7	ug/L	EPA 624	07/28/10	JAR	
Toluene	140	ug/L	EPA 624	07/28/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/28/10	JAR	
Trichloroethene	1.4	ug/L	EPA 624	07/28/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/28/10	JAR	
Prep, ECD	Completed		EPA 608	07/28/10	KTL	
PCB	See below		EPA 608	07/28/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1242	1.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1254	0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclors, total	1.4	ug/L	EPA 608	07/28/10	GMB	
12DCA-D4 (surr spk)	101	% spike recovery	EPA 624	07/28/10	JAR	
BFB (surr spk)	94	% spike recovery	EPA 624	07/28/10	JAR	
Toluene-D8 (surr spk)	109	% spike recovery	EPA 624	07/28/10	JAR	
DCB (pest/PCB surr spk)	37	% spike recovery	EPA 608	07/28/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 3

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102986**

Date Reported: **07/30/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/28/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102986-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, Hg	Completed		EPA 245.2	07/29/10	DBL	
Prep, metals	Completed		EPA 30xx,200.x	07/29/10	DBL	
Arsenic, total, by ICP	<0.1	mg/L	EPA 200.7	07/29/10	DBL	
Cadmium, total	<0.005	mg/L	EPA 200.7	07/29/10	DBL	
Chromium, total	<0.01	mg/L	EPA 200.7	07/29/10	DBL	
Copper, total	<0.02	mg/L	EPA 200.7	07/29/10	DBL	
Lead, total, by ICP	<0.05	mg/L	EPA 200.7	07/29/10	DBL	
Mercury, total, low level	<0.0002	mg/L	EPA 245.2	07/29/10	DBL	
Nickel, total	<0.02	mg/L	EPA 200.7	07/29/10	DBL	
Silver, total	<0.005	mg/L	EPA 200.7	07/29/10	DBL	
Tin, total	<0.1	mg/L	EPA 200.7	07/29/10	DBL	
Zinc, total	<0.02	mg/L	EPA 200.7	07/29/10	DBL	
COD	<10	mg/L	EPA 410.4	07/29/10	DBL	
Cyanide, total	<0.005	mg/L	SM 4500-CN C,E	07/30/10	ALK	
Nitrogen, total kjeldahl	<5	mg/L	EPA 351.2	07/29/10	JHB	
Oil and grease (HEM)	<5	mg/L	EPA 1664	07/28/10	GMB	
Phenols, total	<0.02	mg/L	EPA 420.4	07/30/10	ALK	
Phosphorus, total (as P)	<0.02	mg/L	SM 4500-P E,B5	07/29/10	DMC	
Sulfide	<2	mg/L	EPA 376.2	07/28/10	ALK	
Suspended solids, total	<4	mg/L	SM 2540 D	07/28/10	JHB	
Prior. Poll. volatiles	See below		EPA 624	07/28/10	JAR	
Prep, VOA	Completed		EPA 624	07/28/10	JAR	
1,1,1-Trichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1,2,2-Tetrachloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1,2-Trichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1-Dichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,1-Dichloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
1,2-Dichloropropane	<1	ug/L	EPA 624	07/28/10	JAR	
1,3-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
1,4-Dichlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
2-Chloroethylvinyl ether	<10	ug/L	EPA 624	07/28/10	JAR	
Acrolein	<20	ug/L	EPA 624	07/28/10	JAR	
Acrylonitrile	<2	ug/L	EPA 624	07/28/10	JAR	
Benzene	<1	ug/L	EPA 624	07/28/10	JAR	
Bromodichloromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Bromoform	<1	ug/L	EPA 624	07/28/10	JAR	
Bromomethane	<1	ug/L	EPA 624	07/28/10	JAR	

KAR Laboratories, Inc.

(269) 381-9666

LABORATORY DETAIL REPORT

Client: **CRA Services**

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102986**

Date Reported: **07/30/10**

Project

Description: **Analysis of one aqueous sample from 12th St. Landfill (#56913-60).**

Sample ID : Laboratory Method Blank						
Sampled By :			Date Received : 07/28/10			
Sample Date :			Sample Type : LMB			
Sample Time :			KAR Sample No. : 102986-02			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Carbon tetrachloride	<1	ug/L	EPA 624	07/28/10	JAR	
Chlorobenzene	<1	ug/L	EPA 624	07/28/10	JAR	
Chloroethane	<1	ug/L	EPA 624	07/28/10	JAR	
Chloroform	<1	ug/L	EPA 624	07/28/10	JAR	
Chloromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Cis-1,3-Dichloropropene	<1	ug/L	EPA 624	07/28/10	JAR	
Dibromochloromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Ethylbenzene	<1	ug/L	EPA 624	07/28/10	JAR	
Methylene chloride	<1	ug/L	EPA 624	07/28/10	JAR	
Tetrachloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
Toluene	<1	ug/L	EPA 624	07/28/10	JAR	
Trans-1,2-Dichloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
Trans-1,3-Dichloropropene	<1	ug/L	EPA 624	07/28/10	JAR	
Trichloroethene	<1	ug/L	EPA 624	07/28/10	JAR	
Trichlorofluoromethane	<1	ug/L	EPA 624	07/28/10	JAR	
Vinyl chloride	<1	ug/L	EPA 624	07/28/10	JAR	
Prep, ECD	Completed		EPA 608	07/28/10	KTL	
PCB	See below		EPA 608	07/28/10	GMB	
PCB Aroclor 1016	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1221	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1232	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1242	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1248	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1254	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclor 1260	<0.2	ug/L	EPA 608	07/28/10	GMB	
PCB Aroclors, total	NA		EPA 608	07/28/10	GMB	
12DCA-D4 (surr spk)	104	% spike recovery	EPA 624	07/28/10	JAR	
BFB (surr spk)	90	% spike recovery	EPA 624	07/28/10	JAR	
Toluene-D8 (surr spk)	96	% spike recovery	EPA 624	07/28/10	JAR	
DCB (pest/PCB surr spk)	74	% spike recovery	EPA 608	07/28/10	GMB	

KAR Laboratories, Inc.

(269) 381-9666

Page 5

KAR Laboratories, Inc.



CRA Services
14496 Sheldon Rd., Suite 200
Plymouth, MI 48170

Attn : Mr. Paul Wiseman

KAR Project No. : 102986
Date Reported : 07/30/10
Date Activated : 07/28/10
Date Due : 07/30/10
Date Validated : 07/30/10

Project

**Description : Analysis of one aqueous sample from 12th St. Landfill
(#56913-60).**

Dear Client,

Please find attached a copy of the QC Report for KAR Project No. 102986. The report might contain a second section entitled "QC Batch Report". This section will contain matrix-specific quality control information for the analytical batch, if applicable. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

For duplicate sample calculations, concentrations are considered zero if less than or equal to the reporting limit. For spiked sample calculations, original sample concentration is also considered zero if less than or equal to the reporting limit. For general QA/QC procedures please consult the KAR Laboratories Quality Assurance Manual.

I hope that you find our services accurate and complete. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,

A handwritten signature in black ink that reads "David R. Alkema".

David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health.

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema

David R. Alkema, Lab Manager

KAR Project No. : **102986**

Date Reported : **07/30/10**

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>"WB-056913-072710-CB-010"</u>		Date Sampled : <u>07/27/10</u>						Sample Type : <u>aqueous</u>					
Sampled By : <u>CB of CRA Services</u>		Time Sampled : <u>1620</u>						Sample No. : <u>102986-01</u>					
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range	Method	Analyzed On By	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L					80-117	19	EPA 624	07/28/10 JAR				
1,1,2,2-Tetrachloroethane	<1 ug/L					91-122	11	EPA 624	07/28/10 JAR				
1,1,2-Trichloroethane	<1 ug/L					92-109	20	EPA 624	07/28/10 JAR				
1,1-Dichloroethane	<1 ug/L					84-127	13	EPA 624	07/28/10 JAR				
1,1-Dichloroethene	<1 ug/L					61-145	14	EPA 624	07/28/10 JAR				
1,2-Dichlorobenzene	<1 ug/L					76-127	12	EPA 624	07/28/10 JAR				
1,2-Dichloroethane	<1 ug/L					72-129	21	EPA 624	07/28/10 JAR				
1,2-Dichloropropane	<1 ug/L					88-110	5	EPA 624	07/28/10 JAR				
1,3-Dichlorobenzene	<1 ug/L					88-119	5	EPA 624	07/28/10 JAR				
1,4-Dichlorobenzene	<1 ug/L					80-123	22	EPA 624	07/28/10 JAR				
12DCA-D4 (surr spk)	101 % spike recovery					63-132	NA	EPA 624	07/28/10 JAR				
2-Chloroethylvinyl ether	<10 ug/L					38-165	16	EPA 624	07/28/10 JAR				
Acrolein	<20 ug/L							EPA 624	07/28/10 JAR				
Acrylonitrile	<2 ug/L					66-03	36	EPA 624	07/28/10 JAR				
Arsenic, total, by ICP	<0.1 mg/L		0.1	116.0 %		94-121	20	EPA 200.7	07/29/10 DBL	100729PE1			
BFB (surr spk)	94 % spike recovery					88-135	NA	EPA 624	07/28/10 JAR				
Benzene	<1 ug/L					76-127	11	EPA 624	07/28/10 JAR				
Bromodichloromethane	<1 ug/L					80-113	23	EPA 624	07/28/10 JAR				
Bromoform	<1 ug/L					76-119	25	EPA 624	07/28/10 JAR				
Bromomethane	<1 ug/L					44-153	21	EPA 624	07/28/10 JAR				
CDD	1470 mg/L					72-119	46	EPA 410.4	07/29/10 DBL				
Cadmium, total	<0.005 mg/L		0.02	93.0 %		88-109	20	EPA 200.7	07/29/10 DBL	100729PE1			
Carbon tetrachloride	<1 ug/L					87-114	6	EPA 624	07/28/10 JAR				
Chlorobenzene	<1 ug/L					75-130	13	EPA 624	07/28/10 JAR				
Chloroethane	<1 ug/L					61-122	31	EPA 624	07/28/10 JAR				
Chloroform	<1 ug/L					76-119	18	EPA 624	07/28/10 JAR				
Chloromethane	<1 ug/L					58-125	21	EPA 624	07/28/10 JAR				
Chromium, total	<0.01 mg/L		0.1	99.0 %		87-112	20	EPA 200.7	07/29/10 DBL	100729PE1			
Cis-1,3-Dichloropropene	<1 ug/L					86-123	10	EPA 624	07/28/10 JAR				
Copper, total	<0.02 mg/L		0.1	104.0 %		73-112	20	EPA 200.7	07/29/10 DBL	100729PE1			
Cyanide, total	<0.005 mg/L					71-122	20	SM 4500-CN C,E	07/30/10 ALK				
DCB (pest/PCB surr spk)	37 % spike recovery					25-121	NA	EPA 608	07/28/10 GMB				
Dibromochloromethane	<1 ug/L					80-115	29	EPA 624	07/28/10 JAR				
Ethylbenzene	4.8 ug/L					70-131	30	EPA 624	07/28/10 JAR				
Lead, total, by ICP	<0.05 mg/L		0.1	97.0 %		82-105	20	EPA 200.7	07/29/10 DBL	100729PE1			
Mercury, total, low level	<0.0002 mg/L					89-114	20	EPA 245.2	07/29/10 DBL				
Methylene chloride	<1 ug/L					75-118	18	EPA 624	07/28/10 JAR				
Nickel, total	<0.02 mg/L		0.1	98.0 %		86-109	20	EPA 200.7	07/29/10 DBL	100729PE1			
Nitrogen, total kjeldahl	42.3 mg/L					81-130	31	EPA 351.2	07/29/10 JHB				
Oil and grease (HEM)	<5 mg/L					80-109	48	EPA 1664	07/28/10 GMB				
PCB	See below							EPA 608	07/28/10 GMB				
PCB Aroclor 1016	<0.2 ug/L					29-135	25	EPA 608	07/28/10 GMB				
PCB Aroclor 1221	<0.2 ug/L							EPA 608	07/28/10 GMB				
PCB Aroclor 1232	<0.2 ug/L							EPA 608	07/28/10 GMB				

KAR Laboratories, Inc.

(269) 381-9666

Page 1 of 4

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : 102986

Date Reported : 07/30/10

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

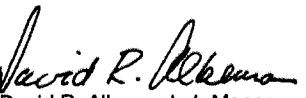
Sample ID : "WB-056913-072710-CB-010"										Date Sampled : 07/27/10			Sample Type : aqueous		
Sampled By : CB of CRA Services										Time Sampled : 1620			Sample No. : 102986-01		
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On	By	QC Batch	Comments	
PCB Aroclor 1242	1.2 ug/L								12-113 5	EPA 608	07/28/10	GMB			
PCB Aroclor 1248	<0.2 ug/L								57-74 6	EPA 608	07/28/10	GMB			
PCB Aroclor 1254	0.2 ug/L								10	EPA 608	07/28/10	GMB			
PCB Aroclor 1260	<0.2 ug/L								29-135 25	EPA 608	07/28/10	GMB			
PCB Aroclor total	1.4 ug/L								16-128	EPA 608	07/28/10	GMB			
pH	6.5 S.U.								5	SM 4500-H B	07/28/10	HES			
Phenois, total	0.19 mg/L								70-127 138	EPA 420.4	07/30/10	ALK			
Phosphorus, total (as P)	0.40 mg/L								82-113 18	SM 4500-P E,B5	07/29/10	DMC			
Prep, ECD	Completed									EPA 608	07/28/10	KTL			
Prep, Hg	Completed									EPA 245.2	07/29/10	DBL			
Prep, VOA	Completed									EPA 624	07/28/10	JAR			
Prep, metals	Completed									EPA 30xx,200.x	07/29/10	DBL			
Prior. Poll. volatiles	See below									EPA 624	07/28/10	JAR			
Silver, total	<0.005 mg/L	0.1	91.0 %						79-106 20	EPA 200.7	07/29/10	DBL	100729PE1		
Sulfide	<2 mg/L								78-119 22	EPA 376.2	07/28/10	ALK			
Suspended solids, total	131 mg/L					126.67	134.67	6.1 %	22	SM 2540 D	07/28/10	JHB	100728SS1		
Tetrachloroethene	3.7 ug/L								84-119 38	EPA 624	07/28/10	JAR			
Tin, total	<0.1 mg/L	0.4	92.2 %						76-119 20	EPA 200.7	07/29/10	DBL	100729PE1		
Toluene	140 ug/L								76-125 13	EPA 624	07/28/10	JAR			
Toluene-D8 (surr spk)	109 % spike recovery								71-123 NA	EPA 624	07/28/10	JAR			
Trans-1,2-Dichloroethene	<1 ug/L								89-118 32	EPA 624	07/28/10	JAR			
Trans-1,3-Dichloropropene	<1 ug/L								87-122 9	EPA 624	07/28/10	JAR			
Trichloroethene	1.4 ug/L								71-120 14	EPA 624	07/28/10	JAR			
Trichlorofluoromethane	<1 ug/L								81-112 19	EPA 624	07/28/10	JAR			
Vinyl chloride	<1 ug/L								49-164 24	EPA 624	07/28/10	JAR			
Zinc, total	0.13 mg/L	0.5	94.0 %						87-114 20	EPA 200.7	07/29/10	DBL	100729PE1		

KAR Laboratories, Inc.

(269) 381-9666

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : 102986

Date Reported : 07/30/10

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>		Date Sampled :						Sample Type : LMB					
Sampled By :		Time Sampled :						Sample No. : 102986-02					
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On By	QC Batch	Comments
1,1,1-Trichloroethane	<1 ug/L								80-117 19	EPA 624	07/28/10 JAR		
1,1,2,2-Tetrachloroethane	<1 ug/L								91-122 11	EPA 624	07/28/10 JAR		
1,1,2-Trichloroethane	<1 ug/L								92-109 20	EPA 624	07/28/10 JAR		
1,1-Dichloroethane	<1 ug/L								84-127 13	EPA 624	07/28/10 JAR		
1,1-Dichloroethene	<1 ug/L								61-145 14	EPA 624	07/28/10 JAR		
1,2-Dichlorobenzene	<1 ug/L								76-127 12	EPA 624	07/28/10 JAR		
1,2-Dichloroethane	<1 ug/L								72-129 21	EPA 624	07/28/10 JAR		
1,2-Dichloropropane	<1 ug/L								89-110 5	EPA 624	07/28/10 JAR		
1,3-Dichlorobenzene	<1 ug/L								88-119 5	EPA 624	07/28/10 JAR		
1,4-Dichlorobenzene	<1 ug/L								80-123 22	EPA 624	07/28/10 JAR		
12DCA-D4 (surr spk)	104 % spike recovery								63-132 NA	EPA 624	07/28/10 JAR		
2-Chloroethylvinyl ether	<10 ug/L								38-165 16	EPA 624	07/28/10 JAR		
Acrolein	<20 ug/L									EPA 624	07/28/10 JAR		
Acrylonitrile	<2 ug/L								66-93 36	EPA 624	07/28/10 JAR		
Arsenic, total, by ICP	<0.1 mg/L								94-121 20	EPA 200.7	07/29/10 DBL		
BFB (surr spk)	90 % spike recovery								88-135 NA	EPA 624	07/28/10 JAR		
Benzene	<1 ug/L								76-127 11	EPA 624	07/28/10 JAR		
Bromodichloromethane	<1 ug/L								80-113 23	EPA 624	07/28/10 JAR		
Bromoform	<1 ug/L								76-119 25	EPA 624	07/28/10 JAR		
Bromomethane	<1 ug/L								44-153 21	EPA 624	07/28/10 JAR		
COD	<10 mg/L								72-119 46	EPA 410.4	07/29/10 DBL		
Cadmium, total	<0.005 mg/L								88-109 20	EPA 200.7	07/29/10 DBL		
Carbon tetrachloride	<1 ug/L								87-114 6	EPA 624	07/28/10 JAR		
Chlorobenzene	<1 ug/L								75-130 13	EPA 624	07/28/10 JAR		
Chloroethane	<1 ug/L								61-122 31	EPA 624	07/28/10 JAR		
Chloroform	<1 ug/L								76-119 18	EPA 624	07/28/10 JAR		
Chloromethane	<1 ug/L								56-125 21	EPA 624	07/28/10 JAR		
Chromium, total	<0.01 mg/L								87-112 20	EPA 200.7	07/29/10 DBL		
Cis-1,3-Dichloropropene	<1 ug/L								86-123 10	EPA 624	07/28/10 JAR		
Copper, total	<0.02 mg/L								73-112 20	EPA 200.7	07/29/10 DBL		
Cyanide, total	<0.005 mg/L								71-122 20	SM 4500-CN C,E	07/30/10 ALK		
DCB (pest/PCB surr spk)	74 % spike recovery								25-121 NA	EPA 608	07/28/10 GMB		
Dibromochloromethane	<1 ug/L								80-115 29	EPA 624	07/28/10 JAR		
Ethylbenzene	<1 ug/L								70-131 30	EPA 624	07/28/10 JAR		
Lead, total, by ICP	<0.05 mg/L								82-105 20	EPA 200.7	07/29/10 DBL		
Mercury, total, low level	<0.0002 mg/L								89-114 20	EPA 245.2	07/29/10 DBL		
Methylene chloride	<1 ug/L								75-118 18	EPA 624	07/28/10 JAR		
Nickel, total	<0.02 mg/L								86-109 20	EPA 200.7	07/29/10 DBL		
Nitrogen, total kjeldahl	<5 mg/L								81-130 31	EPA 351.2	07/29/10 JHB		
Oil and grease (HEM)	<5 mg/L								80-109 48	EPA 1664	07/28/10 GMB		
PCB	See below									EPA 608	07/28/10 GMB		
PCB Aroclor 1016	<0.2 ug/L								29-135 25	EPA 608	07/28/10 GMB		
PCB Aroclor 1221	<0.2 ug/L									EPA 608	07/28/10 GMB		
PCB Aroclor 1232	<0.2 ug/L									EPA 608	07/28/10 GMB		

KAR Laboratories, Inc.

(269) 381-9666

Page 3 of 4

QUALITY CONTROL REPORT

Client: CRA Services

Attest: 
David R. Alkema, Lab Manager

KAR Project No. : **102986**

Date Reported : **07/30/10**

Project Description : Analysis of one aqueous sample from 12th St. Landfill (#56913-60).

Sample ID : <u>Laboratory Method Blank</u>		Date Sampled :						Sample Type : <u>LMB</u>					
		Time Sampled :						Sample No. : <u>102986-02</u>					
Test	Result	Spike Level	MS %Rec.	MSD %Rec.	RPD	Dup. #1	Dup. #2	RPD	QC Limits Rec. Range RPD	Method	Analyzed On By	QC Batch	Comments
PCB Aroclor 1242	<0.2 ug/L									12-113	5	EPA 608	07/28/10 GMB
PCB Aroclor 1248	<0.2 ug/L									57-74	6	EPA 608	07/28/10 GMB
PCB Aroclor 1254	<0.2 ug/L									NA	10	EPA 608	07/28/10 GMB
PCB Aroclor 1280	<0.2 ug/L									29-135	25	EPA 608	07/28/10 GMB
PCB Aroclors, total	NA									16-128	25	EPA 608	07/28/10 GMB
Phenols, total	<0.02 mg/L									70-127	138	EPA 420.4	07/30/10 ALK
Phosphorus, total (as P)	<0.02 mg/L									82-113	18	SM 4500-P E,B5	07/29/10 DMC
Prep, ECD	Completed									NA	NA	EPA 608	07/28/10 KTL
Prep, Hg	Completed									NA	NA	EPA 245.2	07/28/10 DBL
Prep, VOA	Completed									NA	NA	EPA 624	07/28/10 JAR
Prep, metals	Completed									NA	NA	EPA 30xx,200.x	07/29/10 DBL
Prior. Poll. volatiles	See below									NA	NA	EPA 624	07/28/10 JAR
Silver, total	<0.005 mg/L									79-106	20	EPA 200.7	07/28/10 DBL
Sulfide	<2 mg/L									78-119	22	EPA 376.2	07/28/10 ALK
Suspended solids, total	<4 mg/L									NA	NA	SM 2540 D	07/28/10 JHB
Tetrachloroethene	<1 ug/L									84-119	38	EPA 624	07/28/10 JAR
Tin, total	<0.1 mg/L									76-119	20	EPA 200.7	07/28/10 DBL
Toluene	<1 ug/L									76-125	13	EPA 624	07/28/10 JAR
Toluene-D8 (surv spk)	98 % spike recovery									71-123	NA	EPA 624	07/28/10 JAR
Trans-1,2-Dichloroethene	<1 ug/L									89-118	32	EPA 624	07/28/10 JAR
Trans-1,3-Dichloropropene	<1 ug/L									87-122	9	EPA 624	07/28/10 JAR
Trichloroethene	<1 ug/L									71-120	14	EPA 624	07/28/10 JAR
Trichlorofluoromethane	<1 ug/L									81-112	19	EPA 624	07/28/10 JAR
Vinyl chloride	<1 ug/L									49-164	24	EPA 624	07/28/10 JAR
Zinc, total	<0.02 mg/L									87-114	20	EPA 200.7	07/28/10 DBL

KAR Laboratories, Inc.

(269) 381-9666

BATCH QC REPORT

Printed : 02:09:33 PM, 07/30/10

Test	QC Batch	Date	Conc. (Original)	Spike Conc.	Matrix Spike Conc.	% Rec.	Matrix Spike Duplicate Conc.	% Rec.	Spike Dup. RPD	Dup. #1	Dup. #2	Dup. RPD	QC LIMITS Rec. Range	RPD	Sample No.
Arsenic, total, by ICP	100729PE1	07/29/10	0	0.1	0.116	116.0 %							94-121	20	102986-01
Barium, total	100729PE1	07/29/10	413										77-120	20	103009-14
COD	100729CD1	07/29/10	16	40	57.9	104.7 %							72-119	46	102971-01
COD	100729CD1	07/29/10	36										72-119	46	102974-02
Cadmium, total	100729PE1	07/29/10	0	0.02	0.0186	93.0 %							88-109	20	102986-01
Calcium, total	100729PE1	07/29/10	0	20	19.82	99.1 %							81-118	20	103008-01
Calcium, total	100729PE1	07/29/10	0										81-118	20	103008-02
Chromium, total	100729PE1	07/29/10	0	0.1	0.099	99.0 %							87-112	20	102986-01
Copper, total	100729PE1	07/29/10	0	0.1	0.104	104.0 %							73-112	20	102986-01
Cyanide, total	100729CN1	07/30/10	0										71-122	20	102920-09
Cyanide, total	100729CN1	07/30/10	0	100	108	108.0 %							71-122	20	102920-10
Cyanide, total	100729CN1	07/30/10	0										71-122	20	102920-11
Cyanide, total	100729CN1	07/30/10	0	100	111	111.0 %							71-122	20	102920-12
Iron, dissolved	100729PE1	07/29/10	0	1	1.03	103.0 %							86-113	20	102878-39
Iron, total	100729PE1	07/29/10	.07										91-106	20	102878-39
Iron, total	100729PE1	07/29/10	0	21	20.41	97.2 %							91-106	20	103008-01
Iron, total	100729PE1	07/29/10	0										91-106	20	103008-02
Lead, total, by ICP	100729PE1	07/29/10	0	0.1	0.097	97.0 %							82-105	20	102986-01
Manganese, dissolved	100729PE1	07/29/10	0	0.1	0.097	97.0 %							79-114	20	102878-39
Manganese, total	100729PE1	07/29/10	.01										.01	.01	00.0 %
Mercury, diss., low level	100729HCV	07/29/10		0.001	0.001	103.4 %	0.0011	106.7 %	3.1 %				84-115	20	102971-01
Mercury, total, low level	100729HCV	07/29/10	0	0.001	0.001	103.6 %	0.001	104.5 %	0.9 %				89-114	20	102971-01
Nickel, total	100729PE1	07/29/10	0	0.1	0.098	98.0 %							86-109	20	102986-01
Nitrogen, total kjeldahl	100729TK1	07/29/10											81-130	31	102896-02
PCB Aroclor 1016	100723SF8	07/23/10	0	0.5	0.5099	102.0 %	0.5579	111.6 %	9.0 %				29-135	25	102926-05
PCB Aroclor 1260	100723SF8	07/23/10	0	0.5	0.5023	100.5 %	0.5371	107.4 %	6.7 %				29-135	25	102926-05
pH	100728PH1	07/28/10	7.9										7.9	7.95	0.6 %
Phenols, total	100729PL1	07/30/10	0										0	0	0
Phosphorus, total (as P)	100729PR1	07/29/10	.32										32	33	5.0 %
Phosphorus, total (as P)	100729PR1	07/29/10	1.97	1	2.9079	93.8 %							82-113	18	102612-04
Phosphorus, total (as P)	100729PR1	07/29/10	.06	0.2	0.2621	101.1 %							82-113	18	102778-02
Phosphorus, total (as P)	100729PR1	07/29/10	2.18										82-113	18	102941-01
Silver, total	100729PE1	07/29/10	0	0.1	0.091	91.0 %							2.19	2.18	0.7 %
Strontium, total	100729PE1	07/29/10	1230										1235	1226	0.7 %
Sulfide	100728SU1	07/28/10	.01	0.5	0.494	96.2 %							78-119	22	102811-13
Sulfide	100728SU1	07/28/10	0										0	0	0
Suspended solids, total	100728SS1	07/28/10	490										508	472	7.3 %
Suspended solids, total	100728SS1	07/28/10	131										128.67	134.67	6.1 %
Tn, total	100729PE1	07/29/10	0	0.4	0.369	92.2 %							76-119	20	102986-01
Zinc, total	100729PE1	07/29/10	.13	0.5	0.6	94.0 %							87-114	20	102986-01

This "Batch QC" section of the QC Report contains data from samples analyzed in the same Extraction Batch (analytical run) as the samples that you submitted. Please refer to the previous QC Report section for QC information specific to your samples. This report may only be reproduced in full and not without written consent.

KAR Laboratories, Inc.

(269) 381-9666
QC Batch Report
Page 1 of 1



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wiseman
Address: 14496 Sheldon Rd.	Copy To: Jodie Demboski
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: 12th Street LF
Fax: 734-453-5201	Project Number: 056393
Email:	

PAGE OF

Laboratory: KAR	Laboratory Location:	
Laboratory Contact: G. Irwin		Requested Due Date:
QA/QC Requirements: See SSOW		TAT: 24 HR Friday by noon

ID # **Nº D 3863**

SSOW Ref. Code:

056913

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative					Analysis and Method										Remarks/Lab ID
					Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	VOCs	PCB	Metals	COD	Sulfide	Tet. Cyanide	Tet. Phosphorus	Tet. Phenols	TSS, pH	TkD, HEM
1. WB-56913-072710-CB-001	WB	7/27/10	16:20	9	2	2	3	1	1		X	X	X	XX	X	X	X	X	XX	Leachate Composite
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				
TOTAL NUMBER OF CONTAINERS																				

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
CRA Truck	1	Renee Pusink/CRA	7/27/10	17:00	Sondra Martz	7-28-10	9:26 am
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name:

C. Bondy

Sampler Signature:

Date:

Distribution:

WHITE - Fully Executed Copy

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampler Copy

REV. 0 (6/04)

INSTRUCTIONS

1. Complete all client information at top of sheet: e-mail address (person to whom the electronic data deliverable will be sent and contact can be made if questions arise), billing information, PO#, project name and project number as it will appear on the report.
2. A separate COC must be filled out for each day of sample collection.
3. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.
4. Complete Sample Identification as it will appear on the laboratory report, including time of sampling, **CRA** specific matrix code (see below for more matrix codes), number of containers and preservative used.
5. Complete the analysis requested on the lines provided and mark which samples require the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.
6. Sign relinquished by and affiliation at bottom of page and confirm that transfer time and dates match.

Commonly used CRA specific matrix codes:

Liquid	Solid	Air	Other
WB Borehole Water	SE Sediment	GE Gaseous Effluent (Stack Gas)	SW Swab/Swipe
WG Groundwater	CC Concrete	GS Soil Gas	TA Animal Tissue
WM Stormwater	SL Sludge		TP Plant Tissue
WP Drinking Water	SLRY Slurry		
WQ Water Quality Matrix*	SO Soil		
WS Surface Water	ST Solid Waste		
WSW Sump Water			
WT Treated Effluent			
WW Waste Water			
LNAPL Light Non-Aqueous Phase Liquid			
DNAPL Dense Non-Aqueous Phase Liquid			

*Used for Trip Blanks and Equipment Blanks